

DU PONT E I DE NEMOURS AND CO INC -- CYANOBRIK -- 6810-00-281-2039

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

Product ID:CYANOBRIK

MSDS Date:10/01/1988

FSC:6810

NIIN:00-281-2039

MSDS Number: BDSRB

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS AND CO INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-441-7515

Emergency Phone Num:800-441-3637

Preparer's Name:J.C. WATTS

CAGE:18873

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

Company Name:RESEARCH ORGANIC INC.

CAGE:5U335

===== Composition/Information on Ingredients =

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Ingred Name:SODIUM CYANIDE (SARA III)
CAS:143-33-9
RTECS #:VZ7525000
Fraction by Wt: 100%
OSHA PEL:5 MG/M3 (CN)
ACGIH TLV:S; 5 MG/M3 (CN);9192
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 6.440 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION OF DUST WILL CAUSE

RESPIRATORY TRACT IRRITATION & MAY BE FATAL. DUSTS WILL IRRITATE,
BURN & DAMAGE THE EYES. DUST WILL CAUSE SKIN IRRITATION & RASH.
FATAL AMOUNTS CAN BE ABSORBED THROU GH THE SKIN. SWALLOWING CAN
CAUSE DEATH. CHRONIC: LOSS OF APPETITE, HEADACHE, WEAKNESS, NAUSEA,
DIZZINESS & IRRITATION

Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP,
OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE, SKIN & RESPIRATORY TRACT IRRITATION.
PROLONGED OR REPEATED SKIN C

ONTACT MAY RESULT IN ITCHING RASH
CAHRACTERIZED BY MACULAR, POPULAR, AND VESICULAR ERUPTIONS USUALLY
FOLLOWED BY SECONDARY INFECTION. CAN CAUSE DEATH THROUGH CHEMICAL
ASPHYXIA. MAY CAUSE HEADACHE, WEAKNESS, NAUSEA, DIZZINESS AND LOSS
OF APPETITE.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE CENTRAL NERVOUS SYSTEM MAY HAVE INCREASED
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

===== First Aid Measures ===
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First Aid:PLAN & PRACTICE ACTIONS TO BE TAKEN IN CASE OF CYANIDE
EXPOSURE BEFORE BEGINNING WORK WITH CYANIDES. IMMEDIATELY GIVE
VICTIM OXYGEN AND AMYL NITRITE WHILE WAITING FOR INTRAVENOUS
INJECTIONS FROM MEDICAL PERSONNEL. INHALATION: REMOVE TO FRESH
AIR/CPR. EYE: FLUSH WITH PLENTY OF WATER. SKIN: REMOVE CONTAMINATED
CLOTHING & WASH SKIN. INGESTION: GIVE 1% SODIUM THIOSULFATE
SOLUTION & INDUCE VOMITING.

===== Fire Fighting Measure

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Flash Point:NOT FLAMMABLE

Extinguishing Media:USE WATER ON FIRES NEAR SODIUM CYANIDE, BUT
MINIMIZE AMOUNT OF WATER IF CONTAINERS ARE OPENED OR BURNED.

Fire Fighting Procedures:SODIUM CYANIDE DISSOLVES READILY IN WATER;
THEREFORE, CYANIDE SOLUTION RUNOFF MAY OCCUR IF CONTAINERS ARE
OPENED OR BURNED. CONTAIN TO AVOID SAFETY PROBLEMS.

Unusual Fire/Explosion Hazard:DO NOT USE CARBON DIOXIDE AS
EXTINGUISHING MEDIA BECAUSE IT REACTS WITH SODIUM CYANIDE TO

PRODUCE HYDROGEN CYANIDE IF MOISTURE IS PRESENT.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT & SCBA. SMALL SPILL:
SWEEP UP AND DISPOSE OF IN DOT-APPROVED WASTE CONTAINERS. LARGE
SPILL: SHOVEL INTO DOT-APPROVED WASTE CONTAINERS. KEEP OUT OF
SEWERS, STORM DRAINS, SURFACE WATERS, AND SOIL. KEEP SPILLAGE DRY.

Neutralizing Agent:FLUSH RESIDUE WITH DILUTE SOLUTION OF SODIUM
HYPOCHLORITE OR HYDROGEN PEROXIDE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. DO NOT STORE
NEAR ACIDS, OXIDIZERS, FLAMMABLES OR FOODS.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE DUST. AVOID
CONTACT WITH EYES, SKIN OR CLOTHING. USE WITH ADEQUATE VENTILATION.
WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:IF USE CONDITIONS GENERATE DUSTS, WEAR A NIOSH
APPROVED RESPIRATOR APPROPRIATE FOR EMISSION LEVELS. RESPIRATORS
MAY BE A FULL FACEPIECE AIR-PURIFYING CARTRIDGE RESPIRATOR WITH
PARTICULATE FILTERS, A SCBA, OR SUPPLIED-AIR RESPIRATOR.

Ventilation:LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MINIMIZING
DUST EMISSIONS AT THE POINT OF USE.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY CHEM GOGGLES OR FULL-FACE SCBA

Other

her Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. FIRST AID AND MEDICAL TREATMENT SUPPLIES INCLUDING OXYGEN RESUSCITATORS. Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL.

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

HCC:T2

Boiling Pt:B.P. Text:2725F,1496C

Melt/Freeze Pt:M.P/F.P Text:1047F,564C

Vapor Pres:NIL

Vapor Density:NIL

Spec Gravity:1.6

Solubility in Water:MODERATE

Appearance and Odor:WHITE SOLID BRIQUETTES. AMMONIA OR ALMOND LIKE ODOR.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

REACTS VIOLENTLY WITH STRONG OXIDIZING AGENTS. WILL LIBERATE HIGHLY

TOXIC HCN GAS FROM CONTACT WITH ACIDS.

Stability Condition to Avoid:HUMID OR MOIST CONDITIONS.

Hazardous Decomposition Products:POISONOUS AND FLAMMABLE HCN GAS AND AMMONIA GAS.

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES AND ARE SUBJECT TO PROPER WASTE DISPOSAL REQUIREMENTS.

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