

E I DU PONT DE NEMOURS & CO INC -- ACETONITRILE -- 6810-00-051-5871

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Product Identification  
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Product ID:ACETONITRILE  
MSDS Date:08/01/1990  
FSC:6810  
NIIN:00-051-5871  
MSDS Number: BRNGP  
=== Responsible Party ===  
Company Name:E I DU PONT DE NEMOURS & CO INC  
Address:549 ALBANY ST  
City:BOSTON  
State:MA  
ZIP:02118  
Country:US  
Info Phone Num:617-482-9595  
Emergency Phone Num:800-441-3637;800-424-9300(CHEMTREC)  
CAGE:11137  
=== Contractor Identification ===  
Company Name:E I DU PONT DE NEMOURS & CO INC  
Address:549 ALBANY ST  
Box:City:BOSTON  
State:MA  
ZIP:02118  
Country:US  
Phone:617-482-9595;800-551-2121  
CAGE:11137

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Composition/Information on Ingredients  
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Ingred Name:ACETONITRILE (SARA III)  
CAS:75-05-8  
RTECS #:AL7700000  
Fraction by Wt: 100%  
OSHA PEL:40 PPM;60 PPM STEL  
ACGIH TLV:40 PPM;60 PPM STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:SUPDAT:DROW, LO

WERED BLOOD PRESS, METABOLIC ACIDOSIS, RAPID  
PULSE & UNCON. DEATH IN CONVLS MAY OCCUR W/IN 4 HRS. (ING 3)  
RTECS #:9999999ZZ

Ingred Name:ING 2:CHRONIC:SKIN:RPTD/PRLNG EXPOS MAY CAUSE DERM.  
EYE:RPTD/PRLNG EXPOS MAY CAUSE CONJ.  
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:OCCAS LIFTING UPPER & LOWER LIDS, UNTIL NO  
EVID OF CHEM REMAINS (APPROX 15-20 MINS). GET MED ATTN (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4:IMMED. INGEST:GIVE AMYL NITRITE INHAL, 1 AMPULE (0.2  
ML) EVERY 5 MINS  
. GASTRIC LAVAGE SHLD BE DELAYED UNTIL(ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING 5:NITRITE & THIOSULFATE ANTIDOTES HAVE BEEN GIVEN. GIVE  
ARTF RESP W/100% OXYGEN IN ORDER TO MAINTAIN HIGH (ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6:BLOOD OXYGEN TENSION. GET MED ATTN IMMED. ADMIN OF  
AMYL NITRITE, OXYGEN/ANTIDOTE MUST BE PERFORMED BY (ING 8)  
RTECS #:9999999ZZ

Ingred Name:ING 7:QUALIFIED MED PERS. ANTIDOTE:FOLLOWING ANTIDOTE HAS  
BEEN REC. HOWEVER, DECISION AS TO WHETHER SEVERITY OF (IN  
G 9)  
RTECS #:9999999ZZ

Ingred Name:ING 8:POIS REQS ADMIN OF ANY ANTIDOTE & ACTUAL DOSE SHLD BE  
MADE BY QUALIFIED MED PERS. FOR CYANIDE POIS:IF (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9:SYMPS OF CYANIDE POIS ARE EVID, ADMIN IMMED BEFORE  
ANY OTHER FIRST AID MEASURES. ADMIN AMYL NITRITE BY (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10:INHAL FOR 15-20 SECS OF EVERY MIN, WHILE SODIUM  
NITRITE SOLN IS BEING PREPARED. DISCONTINUE AMYL NITRITE (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING

11:& IMMED INJECT 10 ML OF 3% SOLN OF SODIUM NITRITE BY  
IV OVER PERIOD OF 2-4 MINS. IF NEC, INJECT NON- (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12:STERILE SOLN. DO NOT REMOVE NEEDLE. CAUT:APPROP  
ADJUSTMENTS IN DOSE SHLD BE MADE ON BODY WT BASIS. THRU (ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13:SAME NEEDLE, INFUSE BY IV 50 ML OF 25% AQUEOUS SOLN  
OF SODIUM THIOSULFATE. INJECT SHLD TAKE ABOUT 10 MIN.(ING 15)  
RTECS #:9999999ZZ

Ingred Name:ING 14:OTHER CONCS (5-50%) ARE PERMISSIB  
LE IF TOTAL DOSE IS  
HELD @ APPROX 12 GMS. OXYGEN THERAPY MAY BE OF VALUE(ING 16)  
RTECS #:9999999ZZ

Ingred Name:ING 15:IN COMBINATION W/NITRITE & SODIUM THIOSULFATE  
THERAPY. IF SYMPS RECUR, INJECTS OF NITRITE & THIOSULFATE (ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16:MAY BE RPTD @ HALF ABOVE DOSES. IN VERY SEV POIS IT  
IS SAFER & PERHAPS MORE EFFICIENT TO KEEP REPEATING (ING 18)  
RTECS #:9999999ZZ

Ingred Name:ING 17:THIOSULFATE INJECTIONS INSTEAD OF NITRITE. ANTIDOTE  
SHOULD BE A  
DMINISTERED BY QUALIFIED MED PERS.  
RTECS #:9999999ZZ

Ingred Name:SPILL PROC:ENTRY TO SPILL AREA.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:POSS THAT EMPLOYEE'S EYES &/OR SKIN MAY BE  
EXPOSED TO THIS SUBSTANCE, EMPLOYER SHLD PROVIDE EYE(ING 21)  
RTECS #:9999999ZZ

Ingred Name:ING 20:WASH FOUNTAIN & QUICK DRENCH SHOWER W/IN IMMEDIATE  
WORK AREA FOR EMERGENCY USE.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY

MANUFACTURER.

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

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

Health Hazards Acute and Chronic:TOX BY INHAL & INGEST. 4000 PPM IMMEDIATELY DANGEROUS TO LIFE/HEALTH. IRRIT - EYE & SKIN/CHEM ASPHY. POIS MAY AFFECT CNS. ACUTE:INHAL:VAPORS MAY CAUSE NOSE & THROAT IRRIT, FLUSHING OF FACE & FEELING OF TIGHTNESS IN CHEST, COUGH, NAUSEA, VOMIT OF BLOOD/BILE-LIKE SUBSTANCE, DIZZ, RAPID RESP, HDCH, DROW, LOWERED (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HEALTH HAZARD:BLOOD PRESS, PARAL, RAPID PULSE, SHOCK & UNCON. DEATH IN CONVULSIONS WITHIN 1-5 MINS DUE TO CNS DEPRESSION. SKIN:CONTAMINANT MAY CAUSE IRRIT & MAY BE ABSORBED IN TOXIC AMOUNTS TO CAUSE DELAYED SYMPTOMS OF DIZZ, RAPID RESP, VOMIT, FLUSHING OF FACE, HDCH, DROW, LOWERED BLOOD PRESS, RAPID PULSE, UNCON & CONVULSIONS. EYE:VAPORS (SUPPORTIVE DATA)

Medical Conditions Aggravated by Exposure:PERSONS WITH HISTORY OF FAINTING OR CONVULSIONS.

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

First Aid:INHALATION:REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSONS WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. SKIN:REMOVE CONTAMINATED CLOTHING & SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT & LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROX 15-20 MINS). GET MEDICAL ATTENTION IMMEDIATELY. EYE:WASH IMMEDIATELY WITH LARGE AMOUNTS OF WATER/NORMAL SALINE, (INGESTION)

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===== Fire Fighting Measures =====

Flash Point Method:OC

Flash Point:42.0F,5.6C

Lower Limits:3%

Upper Limits:16%

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

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT/FLAME. VAPOR-AIR MIXTURES ARE EXPLOSIVE. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION & FLASH

BACK.

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

Spill Release Procedures:SM SPILLS:SHUT OFF IGNIT SOURCES. ASSURE ADEQ VENT. DO NOT TOUCH SPILLED MATL. WEAR PROT EQUIP TO AVOID DIRECT CONT & INHAL. ABSORB W/SAND OR OTHER INERT ABSORB MATL & PLACE INTO SUITABLE CLEAN, DRY C NTRN FOR LATER DISP. ISOLATE HAZ & DENY(ING 19)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and

Storage Precautions:OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN STORING THIS SUBSTANCE. STORE I/A/W 29 CFR 1910.106.

Other Precautions:STORAGE SHOULD BE IN STANDARD FLAMMABLE LIQUIDS STORAGE ROOM, SEPARATE FROM OXIDIZING MATERIALS & INCOMPATIBLE MATERIALS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:PROVIDE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:SPLASH-PROOF SAFETY GOGGLES & A FSHLD.

Other Protective Equipment:WEAR APPROP PROT (IMPERVIOUS) CLTHG & EQUIP TO PVNT RPTD/PRLNG SKIN CONT W/THIS SUBSTANCE. WHERE THERE IS ANY (ING 20)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MATLS TO AVOID:(FUMING):EXPLODES, OXIDIZERS(STRONG):FIRE & EXPLO HAZ, SULFURIC ACID:VIOLENT CONDENSATION BY HEATING. EFTS OF OVEREXP:MAY

CAUSE SMARTING & LIQ MAY CAUSE IRRIT. INGEST:LG AMTS MAY CAUSE IMMED UNCON, CONVLS & DEATH W/IN 1-5 MINS. LESSER AMTS MAY CAUSE DIZZ, RAPID RESP, VOMIT, FLUSHING OF FACE, HDCH,(ING 2)

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

Boiling Pt:B.P. Text:180F,82C

Melt/Freeze Pt:M.P/F.P Text:-51F,-46C

Vapor Pres:73 @ 20C

Appearance and Odor:COLORLESS LIQUID W/SWEET, ETHER-LIKE ODOR.

===== Stability and Reactivity Data

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Stability Indicator/Materials to Avoid: YES

REACTS W/STEAM & WATER FORMING TOX & FLAMM VAPS. ACIDS,  
BASES: HYDROLYZES, FORMING TOX & FLAMM VAPS. NITRIC ACID (SUPDAT)

Stability Condition to Avoid: MAY BE IGNITED BY HEAT, SPARKS OR FLAMES.

Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS MAY  
INCLUDE HIGHLY TOXIC FUMES OF HYDROGEN CYANIDE.

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

Waste Disposal Methods: OBSERVE ALL FEDERAL, STATE &  
LOCAL REGULATIONS

WHEN DISPOSING OF THIS SUBSTANCE. DISPOSAL MUST BE I/A/W STANDARDS  
APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. EPA  
HAZARDOUS WASTE NUMBER: D 001 & U003.

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