

DU PONT E I DE NEMOURS & CO POLYMER PRODUCTS DEPT -- SPECIALTY ELECTRIC
DETONATORS,SQUIBS -- 4210-01-297-5283

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

Product ID:SPECIALTY ELECTRIC DETONATORS,SQUIBS

MSDS Date:11/03/1985

FSC:4210

NIIN:01-297-5283

MSDS Number: BNVDW

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS & CO POLYMER PRODUCTS DEPT

Address:BARLEY PLZ

City:WILMINGTON

State:DE

ZIP:1989

8

Country:US

Info Phone Num:800-441-7515/302-774-3120

Emergency Phone Num:800-441-3637/800-424-9300(CHEMTREC)

CAGE:57280

=== Contractor Identification ===

Company Name:DU PONT E I DE NEMOURS & CO POLYMER PRODUCTS DEPT

Address:BARLEY PLZ

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515

CAGE:57280

Company Name:JAY AUTOMOTIVE SPECIALTIES INC

Address:701 NORTH ST

Box:City:BERLIN

State:PA

ZIP:15530

Country:US

Phone:814-267-4151

CAGE:1AV08

Company Name:LANDOL CORP

Address:1700 MAYS

ST
Box:111
City:MARYSVILLE
State:KS
ZIP:66508-1265
Country:US
Phone:913-562-5381
CAGE:65459

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

Ingred Name:LEAD DINITROORTHOCRESYLATE
CAS:79357-62-3
Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM PERCHLORATE
CAS:7778-74-7
RTECS #:SC9700000
Other REC Limits:NONE SPECIFIED

Ingred Name:BARIUM PEROXIDE
CAS:1304-29-6
RTECS #:CR0175000
Other REC Limits:NONE SPECIFIED

Ingred Name:SMOKELESS POWDER
Other REC Limits:NONE SPECIFIED
OSHA PEL:NOT ESTABLISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:BLACK POWDER
Other REC Limits:NONE SPECIFIED
OSHA PEL:NOT ESTABLISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:BASIC LEAD PHOSPHITE
CAS:12141-20-7
Other REC Limits:NONE SPECIFIED

Ingred Name:BORON
CAS:7440-42-8
RTECS #:ED7350000
Other REC Limits:NONE SPECIFIED

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Other REC Limits:NONE SPECIFIED

Ingred Name:SELENIUM (SARA III)
CAS:7782-49-2
RTECS #:VS7700000
Other REC Limit

s:NONE SPECIFIED
OSHA PEL:0.2 MG/M3
ACGIH TLV:0.2 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:BRONZE, COMMERCIAL
Other REC Limits:NONE SPECIFIED
OSHA PEL:NOT ESTABLISHED.
ACGIH TLV:NOT ESTABLISHED.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Repo

Routes of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-PRODUCTS DO NOT PRESENT HEALTH HAZARDS IN NORMAL HANDLING & USE.HOWEVER,DECOMPOSITION MAY CAUSE SEVERE INJURY & DEATH.OVEREXPOSURE TO LEAD MAY CAUSE ADVERSE EFFECTS TO BLOOD FORMING,NERVOUS,URINARY,REPRODUCTIVE SYSTEMS CAUSING ANEMIA& FATIGUE.NITROGEN OXIDES MAY IRRITATE EYE,SKIN & LUNGS.CHRONIC-NONE KNOWN.

Explanation of Carcinogenicity:NONE OF THE COMPONENT(S) OF THIS MATERIAL IS LI

STED AS A CARCINOGEN BY NTP,IARC OR OSHA (PER MSDS).

Effects of Overexposure:PRODUCTS DO NOT PRESENT HEALTH HAZARDS IN NORMAL HANDLING & USE. HOWEVER, DECOMPOSITION MAY CAUSE SEVERE INJURY & DEATH. OVEREXPOSURE TO LEAD MAY CAUSE ADVERSE EFFECTS TO BLOOD FORMING, NERVOUS, URINARY, REPRODUCTIVE SYSTEMS CAUSING ANEMIA& FATIGUE. NITROGEN OXIDES MAY IRRITATE EYE, SKIN AND RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure:NONE KNOWN.

===== First Aid Measur

es =====

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN: WASH WITH SOAP & WATER. EYE: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED: REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL: NOT LIKELY.

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

Extinguishing Media:NONE

Fire Fighting Procedures:DO NOT FIGHT FIRE. ISOLATE AREA. EVACUATE PERSONNEL TO A SAFE AREA. GUARD AGAINST INTRUDERS. PRODUCES SHRAP NEL.

Unusual Fire/Explosion Hazard:DETONATES WHEN EXPOSED TO HEAT OR FLAME. PRODUCES SHRAPNEL. HAZARDOUS GASES PRODUCED IN FIRE INCLUDE LEAD FUMES, NITROGEN OXIDES AND COMPOUNDS OF B AND SE.

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

Spill Release Procedures:USE PROTECTIVE EQUIPMENT. REMOVE SOURCES OF FRICTION, IMPACT, HEAT, LOW LEVEL ELECTRICAL CURRENT, ELECTROSTATIC OR RF ENERGY. REFER TO MANUFACTURER'S "DO'S AND DON'TS" INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

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

Handling and Storage Precautions:STORAGE-REFER TO MANUFACTURER'S "DO'S AND DON'TS" INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

Other Precautions:OCCUPATIONAL EXPOSURE TO LEAD IS REGULATED BY SECTION 1910, PART 1025, CFR TITLE 29.

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

Respiratory Protection:IF TOXIC GASES PRESENT, WEAR NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS.

Ventilation:ADEQUATE TO MAINTAIN LEVEL BELOW TLV.

Protective Gloves:RECOMMENDED

Eye Protection:SAFETY GLASSES

Other Protective Equipment:COTTON SOCKS, CONDUCTIVE SOLED SHOES, CONDUCTIVE SURFACES, EYEWASH STATION, EMERGENCY SHOWER

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC:E2

Appearance and

Odor:ALUMINUM OR COMMERCIAL BRONZE SHELLS WITH ATTACHED
INSULATED COPPER LEG WIRES.

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

Stability Indicator/Materials to Avoid:NO

ACIDS, ALKALIES

Stability Condition to Avoid:DETONATES WITH FRICTION, IMPACT, HEAT, LOW
LEVEL ELECTRICAL CURRENT, ELECTROSTATIC OR RF ENERGY

Hazardous Decomposition Products:DETONATES. PRODUCES SHRAPNEL.

HAZARDOUS GASES MAY INCLUDE LEAD FUMES, NITROGEN OXIDES AND
COMPOUNDS OF B AND SE.

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

Waste Disposal Methods:CONSULT AN EXPLOSIVES MANUFACTURER'S RECOMMENDED
METHODS OF DESTROYING EXPLOSIVE MATERIALS. COMPLY WITH APPLICABLE
FEDERAL REGULATIONS UNDER THE AUTHORITY OF THE RESOURCE
CONSERVATION AND RECOVERY ACT (40 CFR, PARTS 260-271).

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