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:19898 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

Dourning.

hone:913-562-5381 CAGE:65459

======= 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 Limits: NONE SPECIFIED

OSHA PEL:0.2 MG/M3

ACGIH TLV:0.2 MG/M3; 9192

EP

A 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.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports 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, URIN ARY, 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 LISTED 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, URINA RY, REPRODUCTIVE SYSTEMS CAUSING ANEMIA& FATIGUE. NITROGEN OXIDES MAY IRRITATE EYE, SKIN AND RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure: NONE KNOWN.

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.
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Extinguishing Media:NONE Fire Fighting Procedures:DO NOT FIGHT FIRE. ISOLATE AREA. EVACUATE PERSONNEL TO A SAFE AREA. GUARD AGAINST INTRUDERS. PRODUCES SHRAPNEL. Unusual Fire/Explosion Hazard:DETONATES WHEN EXPOSED TO HEA T 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 SUPPLI ED WITH EACH PRODUCT SHIPMENT.
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ndling 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:ADEQUA TE 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 INSU

========= 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 ==========

LATED COPPER LEG WIRES.

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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