

DU PONT E I DE NEMOURS & CO -- SPECIALTY ELECTRIC DETONATORS - "S" PRODUCT --
4210-01-297-5283

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

Product ID:SPECIALTY ELECTRIC DETONATORS - "S" PRODUCT

MSDS Date:11/03/1985

FSC:4210

NIIN:01-297-5283

MSDS Number: BQDSF

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS & CO

Address:1007 MARKET ST

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Nu

m:800-441-3637 (MEDICAL)

Emergency Phone Num:800-441-7515 800-424-9300(CHEMTREC)

Preparer's Name:PROD.MGR.,EP,F&FP

CAGE:0BA38

=== Contractor Identification ===

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

Address:DELLE DONNE CORPORATE CTR

City:WILMINGTON

State:DE

ZIP:19880-0800

Country:US

Phone:800-441-7515

CAGE:0BA38

Company Name:DUPONT E I DE NEMOURS AND CO INC, POLYMER PRODUCT-TEFLON
CO.

Address:1007 MARKET ST

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-523-0372/34

6-4748
CAGE:9V583

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Composition/Information on Ingredients
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Ingred Name:LEAD DINITROORTHOCRESYLATE
CAS:79357-62-3
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.15 MG/M3 AS LEAD
ACGIH TLV:0.15 MG/M3 AS LEAD

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

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

Ingred Name:SMOKELESS POWDER
Other REC Limits:NONE RECOMMENDED

Ingred Name:BLACK POWDER
Other REC Limits:NONE RECOMMENDED

Ingred Name:BASIC LEAD PHOSPHITE
CAS:12141-20-7
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.15 MG/M3 AS LEAD
ACGIH TLV:0.15 MG/M3 AS LEAD

Ingred Name:BORON
CAS:7440-42-8
RTECS #:ED7350000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 (AS OXIDE)
ACGIH TLV:10 MG/M3 (AS OXIDE)

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

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

EC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3
ACGIH TLV:0.2 MG/M3; 9293
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 RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:BRONZE, COMMERCIAL
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV=0.15MG/M3(AS PB);PEL=50UG/M3(AS PB)
Routes of Entry: Inhalation:YES Skin:YES
Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:THIS MATERIEL CAN CAUSE INJURY OR
FATALITY.LEAD CAN DAMAGE BLOOD FORMING ORGANS,NERVOUS,REPRODUCTIVE
AND URINARY SYSTEMS.NITROGEN OXIDES ARE SKIN,EYE AND RESPIRATORY
IRRITANTS.CHRONIC EXPOSURE CAUSES LUNG DAMAGE;ACUTE OVEREXOSURE
CAN CAUSELUNG DAMAGE OR SUFFOCATION.
Explanation of Carcinogenicity:NITROGEN OXIDES DO SHOW EMBRYOTOXIC AND
REPRODUCTIVE EFFECTS.
Effects of Overex
posure:LEAD POISONING:LOSS OF APPETITE,ANEMIA,SLEEP
DISTURBANCE,FATIGUE.NITROGEN
OXIDES:BRONCHITIS,EMPHYSEMA,BRONCHOPNEUMONIA,METHEMOGLOBINEMIA.
Medical Cond Aggravated by Exposure:NOT REPORTED.

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

First Aid:NOT REPORTED.REFER TO MANUFACTURER'S "DO'S AND DON'TS"
INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

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

Flash Point:NOT REPORTE

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Extinguishing Media:MANUFACTURER STATES NONE.

Fire Fighting Procedures:DO NOT FIGHT FIRE;EVACUATE AREA.

Unusual Fire/Explosion Hazard:PRODUCES SHRAPNEL.

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

Spill Release Procedures:USE PROTECTIVE EQUIPMENT.REMOVE PERSONNEL.ELIMINATE IGNITION SOURCES(FRICTION,IMPACT,RF AND ELECTROSTATIC ENERGY,ELECTRIC CURRENT).REFER TO MANUFACTURER'S "DO'S AND DON'TS"INSTRUCTIONS AND WARNING SUP PLIED WITH EACH PRODUCT SHIPMENT.

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

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

Other Precautions:REFER TO THE MANUFACTURER'S "DO'S AND DON'TS"INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

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

Respiratory Protection:NOT REPORTED

Ventilation:NOT REPORTED

Protective Glov

es:NOT REPORTED

Eye Protection:NOT REPORTED

Other Protective Equipment:REFER TO THE MANUFACTURER'S "DO'S AND DON'TS"INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

Work Hygienic Practices:REFER TO THE MANUFACTURER'S "DO'S AND DON'TS"INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

Supplemental Safety and Health

REFER TO THE MANUFACTURER'S "DO'S AND DON'TS"INSTRUCTIONS AND WARNINGS SUPPLIED WITH EACH PRODUCT SHIPMENT.

===== Physical/

Chemical Properties =====

HCC:E2

Solubility in Water:NOT REPORTED

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

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

Stability Indicator/Materials to Avoid:NO

ACIDS,ALKALI.

Stability Condition to Avoid:HEAT,FRICITION,IMPACT,LOW LEVEL ELECTRIC
CURRENT,ELECTROSTATIC OR RF ENERGY

Hazardous Decomposition Products:SHRAPNEL,LEAD FUMES,OXIDES OF
NITROGEN,BORON AND SELENIU
M COMPOUNDS.

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

Waste Disposal Methods:CONSULT THE MANUFACTURER.DISPOSAL MUST COMPLY
WITH 40CFR, PARTS 260-271.

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