

JET RESEARCH CENTER,INC -- LEAD & COPPER LINEAR SHAPED CHARGE (LSC) --
1375-01-082-9924

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

Product ID:LEAD & COPPER LINEAR SHAPED CHARGE (LSC)

MSDS Date:05/15/1990

FSC:1375

NIIN:01-082-9924

MSDS Number: BPQWV

=== Responsible Party ===

Company Name:JET RESEARCH CENTER,INC

Address:180 OLD BEE TREE ROAD

City:SWANNANOA

State:NC

ZIP:28778

Country:US

Info Phone Num:704-29

8-7941

Emergency Phone Num:704-298-7941

Preparer's Name:JH MOORE

CAGE:DO390

=== Contractor Identification ===

Company Name:CHEMTRONICS INC.

CAGE:0CG91

Company Name:JET RESEARCH CENTER,INC D & A

Address:180 OLD BEE TREE ROAD

Box:City:SWANNANOA

State:NC

ZIP:28778

Phone:704-298-7941

CAGE:DO390

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

Ingred Name:COPPER.OSHA PEL AND ACGIH TLV ARE 1 MG(CU)/M3 FOR DUST &
MIST. (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limit

s:NOT KNOWN
OSHA PEL:0.1 MG(CU)/M3 FUME
ACGIH TLV:0.2 MG(CU)/M3 FUME
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:LEAD.ACGIH TLV FOR INORGANIC DUST & FUMES. (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Other REC Limits:NOT KNOWN
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.15 MG(PB)/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:RDX (CYCLONITE).SPECIFIC GRAVITY:1.8 (WATER=1).MELTING
POINT:401F,205C (DECOMPOSES).INSOLUBLE IN WATER.
CAS:121-82-4
RTECS #:XY9450000
Fraction by Wt: 98.5%
Other REC
Limits:NOT KNOWN
OSHA PEL:1.5 MG/M3 SKIN
ACGIH TLV:1.5 MG/M3 SKIN

Ingred Name:WAX
Fraction by Wt: 1.5%
Other REC Limits:NOT KNOWN
OSHA PEL:NOT KNOWN
ACGIH TLV:NOT KNOWN

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

LD50 LC50 Mixture:NOT KNOWN
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SKIN CONTACT WITH RDX CAN CAUSE
ALLERGIC SKIN REACTIONS.INHALATION OR SKIN ABSORPT
ION OF RDX MAY
CAUSE SYSTEMIC POISONING.INGESTION OF RDX CAN CAUSE DEATH IF
CONSUMED IN SIGNIFICANT QUANTITY.LEAD IS K NOWN TO CAUSE
REPRODUCTIVE DISORDERS (FEMALE,MALE AND/OR DEVELOPMENTAL) (CAL PROP
65,1987).
Explanation of Carcinogenicity:INORGANIC LEAD & LEAD
COMPOUNDS:INADEQUATE EVIDENCE FOR CARCIN IN HUMANS;SUFF EVID FOR
CARCIN IN ANIMALS (IARC,1987).
Effects of Overexposure:CONTACT WITH RDX UNLIKELY WITH NORMAL HNDLG/USE
BUT MAY OCCUR BY SPILLAGE FROM A DAMAGED

LSC. EYES:RDX DUST MAY CAUSE IRRIT,REDNESS. SKIN:RDX CAN CAUSE RASH,IRRIT. INGEST:RDX CAN CAUSE INSOMNIA,HEADAC HES,CONVULSIONS,UNCONSCIOUSNESS. INHAL:RDX DUST CAN CAUSE IRRITATION OF BREATHING TRACT,ESPECIALLY IN SENSITIVE PERSONS.

Medical Cond Aggravated by Exposure:NOT KNOWN

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

First Aid:EYES:FLUSH WITH LOW PRESSURE WATER FOR AT LEAST 15 MINUTES.REMOVE CONTACT LENSES.GET MEDICAL ATTN. SKIN:WASH THOROU GHLY WITH SOAP & WATER.IF IRRITATION/RASH DEVELOP CALL PHYSICIAN. INGESTION:IF CONSCI OUS,GIVE 2 GLASSES OF WATER & INDUCE VOMITING.NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.GET MED ATTN. INHALATION:MOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE OXYGEN.CALL PHYSICIAN.

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

Autoignition Temp:Autoignition Temp Text:205 C
Extinguishing Media:WATER SPRINKLER OR DELUGE SYSTEM IS PREFERRED.
Fire Fighting Proce dures:DO NOT MANUALLY EXTING FIRE.EVAC AREA & SEEK PROTECTIVE COVER AT INHABITED BLDG,DISTANCE BASED ON WEIGHT OF EXPLOSIVE.ALLOW FIRE TO BURN OUT BEFORE APPROACHING.
Unusual Fire/Explosion Hazard:EXPLOSIVE IS UNDER CONFINEMENT & MAY BE CAUSED TO DETONATE BY BURNING MATERIAL SURROUNDING THE LSC.METALLIC FRAGMENTS ARE A SECONDARY HAZARD.

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

Spill Release Procedures:IF RDX IS SPILLED FROM THE LSC,REMOVE SOURCES OF IGNITION.SWEEP UP THE SPILL USING A VEGETABLE FIBER BROOM AND NON-SPARKING DUST PAN.PLACE EXPLOSIVE IN PROPERLY MARKED CLOSED CONTAINER.
Neutralizing Agent:NONE NECESSARY.

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

Handling and Storage Precautions:UNO CLASS 1.1 HAZ MATL.COMPATIBLE STORAGE GROUP (SCG)=D.DO NOT STORE W/ DETONATORS/INITIATING EXPLO/SCG A & B EXPLO/FLAMM LIQUIDS/SOLVENTS.(SEE SUPP)
Other Precautions:LIMIT USE TO PERS HIGHLY TRAINED/EXPER

INCEDED IN

USE/HAZARDS OF EXPLOSIVES.DURING DETONATION/DESTRUCTIVE TESTING:PROTECT ALL PERS FROM EFFECTS OF BLAST OVERPRESS & FRAGMENTS.LET TOX FUMES CLEAR BEFORE REENTRY.LEAD FUMES & DUST:HIGHLY TOXIC.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL HANDLING.

Ventilation:UNDER NORMAL USE,NONE IS REQUIRED.

Protective Gloves:IMPERVIOUS RUBBER GLOVES.

Eye Protection:ANSI APPROVED CHEMICAL SAFETY GOGGLES.

Other

Protective Equipment:NONE REQUIRED UNDER NORMAL HANDLING.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,DRINKING OR SMOKING.

Supplemental Safety and Health

CONTRACT #:DAAA09-89-C-0691.WASTE DISP METH:WELL TRAINED & CLOSELY SUPERVISED.THERMAL DESTRUCTION LIKELY TO CAUSE DETONATION.HNDLG/STOR PREC:MAGAZINES SHOULD BE BULLET/WEATHER/THEFT RESISTANT & WELL V ENTILATED.OBSERVE QUANTITY-DISTANCE SEPARATIONS PER DOD CONTRACTORS SAFETY MANUAL FOR A&E CHAP 4 & 6.

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

Boiling Pt:B.P. Text:NOT KNOWN

Melt/Freeze Pt:M.P/F.P Text:NOT KNOWN

Decomp Temp:Decomp Text:SEE ING 3

Vapor Pres:NOT KNOWN

Vapor Density:NOT KNOWN

Spec Gravity:NOT KNOWN

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:SEE ING 3

Appearance and Odor:CHEVRON SHAPED COPPER OR SILVER GRAY COLORED METAL TUBES.NO DISTINCTIVE ODOR.

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

STRONG ACIDS AND ALK

ALIS.

Stability Condition to Avoid:HIGH HEAT,SHOCK,FRICITION,IMPACT,ELECTRICAL DISCHARGE WHEN SUPPLIED IN SUFFICIENT ENERGY CAN CAUSE LSC TO DETONATE.

Hazardous Decomposition Products:WHEN DETONATED THE EXPLOSIVE COMPONENT EMITS CARBON DIOXIDE,CARBON MONOXIDE,AND OXIDES OF NITROGEN.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISP MUST BE IAW FED,STATE,& LOC REGS.COORDINATE W/ SUPPO
RTING INSTALLATION/MACOM ENVIRON OFFICE BEFORE DISP .BEST
DESTROYED BY DETONATION PER SAFETY REC OF DOD CONTRACTORS SFTY
MANUAL FOR A&E 4 145.26M,CHAPTER 15.WORKERS MUST BE (SEESUPP)

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