

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

===== 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

-298-7941

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

===== 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 Li

imits: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 R
EC 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 ABSORPTION OF RDX MAY
CAUSE SYSTEMIC POISONING.INGESTION OF RDX CAN CAUSE DEATH IF
CONSUMED IN SIGNIFICANT QUANTITY.LEAD IS KNOWN 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 HANDLING/USE
BUT MAY OCCUR BY SPILLAGE FROM A DAMA

GED 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

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

First Aid:EYES:FLUSH WITH LOW PRESSURE WATER FOR AT LEAST 15 MINUTES.REMOVE CONTACT LENSES.GET MEDICAL ATTN. SKIN:WASH THO ROUGHLY 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.

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

Autoignition Temp:Autoignition Temp Text:205 C
Extinguishing Media:WATER SPRINKLER OR DELUGE SYSTEM IS PREFERRED.
Fire Fighting Pr
ocedures: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.

===== 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.

===== 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/EX

PERIENCED 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.

===== 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.
Oth
er 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.

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

STRONG ACIDS AND

ALKALIS.

Stability Condition to Avoid:HIGH HEAT,SHOCK,FRICTION,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/ SU
PPORTING 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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