MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-134/13465-94-6.html for suppliers of this product.

Composition/Information on Ingredient Cas: 13465-94-6 Code:

RESPIRATORY PROTECTION NOT NORMALLY NEEDED. AVOID PROLONGED BREATHING OF DECOMPOSITION

13 SPILL:AVOID SUBJECTING MATLS TO MECHANICAL SHOCK.ADDN MATL MNGMT INFO REQUIRED PLEASE CALL MEI @904-584-2634.NO EXTRA PROTECTIREQUIRED BEYOUND THAT LISTED IN MSDS. FIRE:FIRE-FIGHTING EQPMT.USE

MAY BE HARMFUL IF INGESTED OR UPON SKIN/EYE CONTACT.ACUTE: RESP-MINOR IRRIT.DERM-MINOR IRRIT.INGEST-NOT VIABLE ROUTE.CHRONIC:RESP-POSSIBLE CARCINOGEN @HIGH CONC.DERM-MAY CAUSE IRRIT.INGEST-NOT A VIABLE ROUTE.INTERACTIONS

LEAD HAS BEEN SHOWN TO EFFECT FETAL DEVELOPMENT.IRRITATION.TERATOGENICITY: POSSIBLE WHEN OCCUPATIONALLY EXPOSED

EYE: IMMED FLUSH W/LG AMTS OF WATER FOR @LEAST 15MINS OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. IF EYE IRRIT DVLPS CALL DR.SKIN: FOR BURNS USE STANDARD 1STAID METHODS. INGEST: NOT A VIABLE ROUTE. INHAL: REMOVE TO FRESH AIR. CONSULT

PRODUCT MAY REPRESENT EXPLO HAZ.REMOVE ALL SOURCES OF IGNITION.S SOURCE OF SPILL AS SOON AS POSSIBLE & NOTIFY APPROPRIATE PERSONNEL.MATL SPILL SHOULD ONLY BE ADDRESSED BY PERSONNEL EXPERIENCED IN H NDLG ENERGETIC MATLS.USE

DISPOSAL OF MATL, DECOMPOSITION PRODUCTS & EMPTY CNTNRS IAW ALL LOCAL, STATE AND FEDERAL REGULATIONS. CONTAINS CHEMS SUBJ TO REPORTING REQMTS ESTABLISHED BY SARA TITLE II.PLEASE CONSULT FED/STATE/LOC RE GS FOR APPROPRIATE

STORE IN COOL DRY PLACE AWAY FROM ALL SOURCES OF IGNITION.DO NOT STORE @TEMPS ABOVE:65.5C/150F.DO NOT SUBJECT TO

SHELF LIFE LMT: INDEF @50-90F & 35% RELATIVE HUMIDITY. INCOMP MATL FOR PACKAGING: PKG ONLY IN DOT APPROV CNTNRS. INCOMP MATL FOR STORAGE/TRANSP:NA.ADDN INFO IN ORDNANCE SAF MANUAL FRM US ARMY ORD DEPT.ALS O FRM INSTITUTE OF MAKERS OF

FIGHT ALL FIRES FRM REMOTE & EXPLOSION RESISTANT SITE.EVACUATE ALL NON-ESSENTIAL PERSONNEL.USE H2O TO COOL CNTNR

11 PER MSDS:POSSIBLE WHEN OCCUPATIONALLY EXPOSED TO DECOMPOSITION PRODUCTS AT HIGH CONCENTRATION.

Μ

RTECS: 9999992Z

Code: Μ

Name:

BARIUM NITRATE

Other REC Limits:

OSHA PEL:

OSHA STEL:

ACGIH TLV:

ACGIHSTEL:

PRODUCTS.

Ventilation:

GLOVES

Protective Gloves:

Eye Protection: EYE PROTECTION

Other Protective Equipment:

Supplemental Safety and Health:

Health Hazards Data

ORAL LD50: NO AVAILABLE DATA.

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

Explanation Of Carcinogenicity:

NONE KNOWN OR REPORTED.

PHYSICIAN IFIRRIT OCCURS.

Spill Release Procedures:

Waste Disposal Methods:

Neutralizing Agent:

MECHANICAL SHOCK.

Other Precautions:

Flash Point Method:

GUIDANCES.

EXPLO (SUP)

N/P 12

N/A

NA

Lower Limits:

Upper Limits:

EXPLOSIVE.

NRC/State LIC No:

Boiling Point:

Melt/Freeze Pt:

M.P/F.P Text:

Decomp Temp:

Decomp Text: >180F,>82C

Vapor Pres:

N/APPLIC

Vapor Density:

Spec Gravity:

PH: NA

Viscosity:

NA

YES

NO

N/APPLICABLE

Solubility in Water:

Corrosion Rate:

Stability Indicator:

Materials To Avoid: STRONG ACIDS.

NOT APPLICABLE

Information:N/P

Information:N/P

Appearance and Odor:

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid: UNSTABLE @TEMPS >82C.

Hazardous Decomposition Products:

Hazardous Polymerization Indicator:

Conditions To Avoid Polymerization:

Toxicological Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

www.lookchem.com

Other Information:N/P

MSDS Transport Information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

VOC Pounds/Gallon:

VOC Grams/Liter:

Evaporation Rate & Reference:

ALUMINUM SHELL APPROX 1.5" DIA BY 4.5" LONG; ODOR: NONE.

COMPOUNDS OF LEAD, CARBON DIOXIDE, BARIUM, CHROMIUM. 14

Volatile Org Content %:

NP

B.P. Text:

Net Prop WT For Ammo:

HCC: E1

N/R

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

WATER SPRAY.APPLY BY MECHANICAL MEANS ONLY.

EXPO TO FIRE.IN CASE OF FIRE USE NORMAL(SUPPLE)

Physical/Chemical Properties

Flash Point:

Flash Point Text:

Autoignition Temp:

Autoignition Temp Text:

NON-SPARK TOOLS, (SUPPLEM)

NONE SPECIFIED BY MANUFACTURER.

Handling And Storage Precautions:

Signs And Symptions Of Overexposure:

Medical Cond Aggravated By Exposure:

W/OTHER CHEM WHICH ENHANCE TOXICITY: NONE KNOWN/REPORTED.

Fire and Explosion Hazard Information

TO DECOMPOSITION PRODUCTS AT HIGH CONCENTRATION.

Route Of Entry Inds - Inhalation:

Work Hygienic Practices:

LD50LC50Mixture:

YES

Skin: YES

YES

IARC: YES

OSHA: NO

Ingestion:

NOT ESTABLISHED

Control Measures

USE ONLY IN OPEN AREAS W/ADEQUATE VENTILATION.

Equipment BOOTS.AVOID SKIN CONTACT W/MATLS DECOMPOSITION PRODUCTS.

SCBA IF SMOKE FRM INCIDENT IS BREATH HAZ. OTHERPREC:NOS.1,2,3,17,22.

INSTITUTE OF MAKERS OF EXPLO,1575 EYE ST,NW,SUITE 550,WASHNGTON DC 20005.

Respiratory Protection:

Code:

Code:

Code: Μ

Code:

Μ

NONE RECOMMENDED

NOT ESTABLISHED