MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-101/10108-73-3.html for suppliers of this product.

Composition/Information on Ingredient

Cas:
10108-73-3
Code:
M

RTECS:
FM0280000
Code:
F

Name:
CERIUM (III) NITRATE % low Wt: 95. Code: M %

Other REC Limits:
N/P

OSHA PEL:
N/P
Code:

OSHA STEL:
N/P
Code:

ACGIH TLV:
N/P
Code:

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
NIOSH APPRVD AIR PURIFYING RESP W/DUST/MIST FILTER MAY BE USED UNDER CNDTNS WHERE AIRBORNE CONCS ARE EXPECTED TO EXCEED EXPOS LIMS. PROT PROVIDED BY AIR PURIFYING RESPS IS LIMITED (SEE MFR'S RESP SELE CTION GUIDE). USE NIOSH APPRVD POS PRESS AIR SUPPLIED RESP IF THERE IS POTENTIAL FOR UNCONTROLLED RELEASE, EXPOS LEVELS ARE NOT KNOWN (FED REG INFO)

Ventilation:
IF CURRENT VENT PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCS BELOW ESTABLISHED EXPOS LIMITS, ADDITIONAL VENT/EXHAUST SYSTEMS MAY BE REQUIRED.

Protective Gloves:
IMPERMEABLE GLOVES ADVISED TO PREVENT SKIN CONTACT.

Eye Protection:
ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH FACESHIELD (FP N).

Other Protective Equipment:
Equipment ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER (FP N). IT IS RECOMMENDED THAT IMPERVIOUS CLOTHING BE WORN.

Work Hygienic Practices:
THOROUGHLY CLEAN SHOES AND WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICE.

Supplemental Safety and Health:
FIRST AID PROC: IF NOT BRTHG, IMMED BEGIN ARTF RESP. IF BRTHG DFCLTYS DEVELOP, OXYGEN SHOULD BE ADMIN BY QUALIFIED PERS. SEEK IMMED MED ATTN. INGEST: DO NOT INDUCE VOMIT. CORR MATL. ACID BURNS. IF ANY BRTHG DFCLTYS, CALL FOR EMER HELP IMMED. IF CONSCIOUS & ALERT, IMMED RINSE MOUTH W/WATER & DILUTE (OTHER INFO)

Health Hazards Data

LD50/LC50Mixture:
N/P

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EYES: CORROSIVE. CONT MAY CAUSE SEVERE IRRIT, BURNS, & PERMANENT DAMAGE. SKIN: CORROSIVE. CONT MAY CAUSE SEVERE IRRIT, BURNS, & PERMANENT DAMAGE. NO INFO REGARDING SKIN ABSORPTION, HOWEVER, CORROSIVIT Y OF MATERIAL SUGGESTS SIGNIFICANT SKIN ABSORPTION WILL OCCUR. INHAL: CORROSIVE. MAY BE HARMFUL/FATAL IF INHALED. MAY CAUSE SEVERE IRRIT & BURNS OF NOSE, THROAT, & RESPIRATORY TRACT. INGEST: CORROSIVE . MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SEVERE IRRIT & BURNS OF MOUTH, THROAT, & DIGESTIVE

Explanation Of Carcinogenicity:
NO DATA AVAILABLE.

Signs And Symptions Of Overexposure:
HEALTH HAZARDS: TARGET ORGANS: A COMPONENT IS A POTENTIAL LIVER HAZARD TO LIVER (SEE TOXICOLOGICAL INFORMATION). DEVELOPMENTAL: NO DATA AVAILABLE. OTHER COMMENTS: THIS MATERIAL CONTAINS NITRATE SALTS. NITRATES MAY BE REDUCED BY INTESTINAL BACTERIA TO NITRITE. WHEN ABSORBED, NITRITES MAY RESULT IN EFFECTS ON BLOOD (METHEMOGLOBINEMIA) & BLOOD VESSELS (VASODILATING & FALL IN BLOOD PRESSURE). SYMPTOMS OF TOXICITY MAY INCLUDE HEADACHE, FAINTING, FATIGUE, CYANOSIS, CONFUSION, IRREGULAR HEARTBEA

Medical Cond Aggravated By Exposure:
PREEXISTING HEART DISEASE MAY BE AGGRAVATED BY EXPOSURE TO NITRATES. CONDITIONS AGGRAVATED BY EXPOSURE MAY INCLUDE SKIN DISORDERS AND RESPIRATORY (ASTHMA-LIKE) DISORDERS.

First Aid:
EYES: IMMED MOVE INTO FRESH AIR. IF IRRIT/REDNESS DEVELOPS, FLUSH EYES W/CLEAN WATER FOR AT LEAST 15 MINS & SEEK IMMED MED ATTN. FOR DIRECT CONT, IMMED HOLD EYELIDS APART & FLUSH EYES W/CLEAN WATER FO R AT LEAST 30 MINS. SEEK IMMED MED ATTN. SKIN: IMMED FLUSH W/LGE AMTS OF WATER WHILE REMOVING CONTAM SHOES, CLTHG & CONSTRICTIVE JEWELRY. IF SKIN SURF IS DAMAGED, APPLY CLEAN DRESSING & SEEK IMMED MED ATTN. IF SKIN SURF IS NOT DAMAGED, CLEANSE THORO BY WASHING W/MILD SOAP & WATER. IF IRRIT/R

Spill Release Procedures:
OXIDIZER WHEN ALLOWED TO DRY TO SOLID. KEEP ALL SOURCES OF IGNIT & HOT METAL SURFS AWAY FROM SPILL/RELEASE. USE OF EXPLO-PROOF EQUIP IS REC. STAY UPWIND & AWAY FROM SPILL/RELEASE. ISOLATE DANGER AREA & KEEP UNAUTHORIZED PERS OUT. S SPILL/RELEASE IF IT CAN BE DONE W/MIN RISK. WEAR APPROP PROT EQUIP INCL NIOSH APPRVD RESP PROT AS CNDTNS WARRANT. 4 (ECOLOGICAL INFO)

Neutralizing Agent:
N/P

Waste Disposal Methods:
MATL, IF DISCARDED AS PROCED, WOULD BE RCRA "CHRACT" HAZ WASTE DUE TO CHRACT(S) OF CORR.(D002). IF MATL IS SPILLED TO SOIL/WATER, CHARACT TESTING OF CONTAM MATLS IS REC. FURTHER, THIS MATL, ONCE IT BECOMES WASTE, IS SUBJECT TO LAND DISP RESTRICTIONS IN 40 CFR 268.40 & MAY REQUIRE TREATMENT PRIOR T O DISP TO MEET SPECIFIC STDS. (ECOLOGICAL INFO)

Handling And Storage Precautions:
USE OF NIOSH APPRVD RESP PROT IS ADVISED WHEN CONCS EXCEED ANY ESTABLISHED EXPOS LIMS. KEEP CONTRS TIGHTLY CLSD. USE & STORE IN COOL, DRY, WELL-VENTILATED AREAS AWAY FROM HEAT & ALL SOURCES OF IGNIT. POST AREA "NO SMKNG/OPEN FLAME". STORE ONLY IN APPRVD CONTRS. PROTECT CONTRS AGAINST PHYSICAL DMG.

Other Precautions:
STORE TO AVOID CONT W/INCOMPATIBLE MATLS SUCH AS ORDINARY COMBUSTS, FLAM LIQS, GREASES, & THOSE MATLS, INCL OTHER OXIDIZERS, THAT COULD REACT W/OXIDIZER/CATALYZE ITS DECOMP. PROHIBIT ACCUM OF COMBUST WASTE IN STOR AREAS. COMBUST CONSTRUCTION MATLS THAT MAY BE IN CONT W/OXIDIZERS SHALL BE PROTECTED (TRANSPORTATION INFO)

Fire and Explosion Hazard Information

Flash Point Method:

Flash Point:

Flash Point Text:
N/A

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/A

Upper Limits:
N/A

Extinguishing Media:
USE THAT WHICH IS APPROPRIATE FOR THE SURROUNDING FIRE.

Fire Fighting Procedures:
WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP (FP N). HAZ COMBUST/DECOMP PRODS MAY BE RELEASED WHEN EXPOSED TO HEAT/FIRE. EMER RESPONDERS IN DANGER AREA SHOULD WEAR BUNKER GEAR & NIOSH APPRVD SCBA FOR FIRE S BEYOND INCIPIENT AREA (29 CFR 1910.156). IN ADDN, WEAR OTHER APPROP PROT EQUIP AS CNDTNS WARRANT. (SARA REG INFO)

Unusual Fire/Explosion Hazard:
5 OXIDIZER. IF ALLOWED TO DRY, MATL IS AN OXIDIZER & MAY INCR FLAM OF ANY COMBUST. IT IS NATURE OF OXIDIZERS TO PROVIDE THEIR OWN OXYGEN SOURCE, SMOTHERING FIRE MAY BE INEFFECTIVE. IF CONTR IS NOT PROPE RLY COOLED, IT CAN EXPLODE IN HEAT OF FIRE. CLSD CONTRS EXPOSED TO EXTREME HEAT CAN RUPTURE DUE TO PRESS BUILDUP.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:
6

Boiling Point:

B.P. Text:
N/A (AQUEOUS SOLUTION)

Melt/Freeze Pt:

M.P/F.P Text:
N/A (AQUEOUS SOLUTION)

Decomp Temp:

Decomp Text:
N/P

Vapor Pres:
N/A (AQUEOUS SOLUTION)

Vapor Density:
N/A

Volatile Org Content %:

Spec Gravity:
1.90 G/CC @ 20C

VOC Pounds/Gallon:

PH: 0.7-2.5 @ 20C

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/P

Solubility in Water:
N/A (AQUEOUS SOLUTION)

Appearance and Odor:
LIQUID AMBER SOLUTION, WITH ACRID, PUNGENT ODOR.

Percent Volatiles by Volume:
N/P

Corrosion Rate:
N/P

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING. OXIDIZER, IF DRY, AND THEN PROMOTES COMBUSTION IN OTHER MATERIALS. AVOID EXCESSIVE HEAT, SHOCK, OR MOISTURE.

Materials To Avoid:
AVOIDING CONTACT WITH COMBUSTIBLE MATERIALS.

Hazardous Decomposition Products:
GASEOUS OXIDES OF NITROGEN FORM ON DECOMPOSITION OF NITRATES BY TEMPERATURES EXCEEDING 150C AND/OR BY OXIDATION REACTIONS.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/P

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P

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WARRANTY
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