

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-121/12190-79-3.html> for suppliers of this product.

## Composition/Information on Ingredient

### Cas:

12190-79-3

### Code:

T

### RTECS:

### Code:

X

### Name:

LITHIUM COBALTITE (LICOO<sub>2</sub>) AS MSDS;LITHIUM COBALT

### Other REC Limits:

NONE RECOMMENDED

### OSHA PEL:

NOT ESTABLISHED

### Code:

M

### OSHA STEL:

N/P

### Code:

### ACGIH TLV:

NOT ESTABLISHED

### Code:

M

### ACGIH STEL:

N/P

### Code:

## Control Measures

### Respiratory Protection:

NO RESPIRATOR REQUIRED FOR NORMAL HANDLING. SCBA REQUIRED FOR FIRES.

### Ventilation:

N/P; NORMAL ROOM VENTILATION IN STORAGE AREA.

### Protective Gloves:

NOT REQUIRED FOR HANDLING INDIVIDUAL CELLS. FABRIC GOVES FOR WAREHOUSE

### Eye Protection:

NOT REQUIRED BEYOND EMPLOYER POLICY 9

### Other Protective Equipment:

Equipment STANDARD INDUSTRIAL CLOTHING IN NORMAL USE. IMPERVIOUS SUIT IN FIRES. WEAR STEEL TOED FOOTWEAR IF LARGE CONTAINERS OF CELLS ARE BEING HANDLED.

### Work Hygienic Practices:

N/P

### Supplemental Safety and Health:

N/P

## Health Hazards Data

### LD50/LC50 Mixture:

N/P

### Route Of Entry Inds - Inhalation:

NO

### Skin:

NO

### Ingestion:

NO

### Carcinogenicity Inds - NTP:

NO

### IARC:

NO

### OSHA:

NO 7

### Health Hazards Acute And Chronic:

ACUTE: SKIN: NO EFFECT NOTICED IN ROUTINE HANDLING OF PRODUCT. EYES: THE BULK SOLID HAS NO EFFECT ON THE EYE. INHALATION: NOT APPLICABLE. INGESTION: INGESTION IS NOT A LIKELY, GIVEN THE PHYSICAL SIZE AND STATE OF THE CELL. CHRONIC: SKIN: NONE ANTICIPATED. EYES: NOT APPLICABLE. INHALATION: NOT APPLICABLE. INGESTION: INGESTION IS NOT A LIKELY EXPOSURE ROUTE.

### Explanation Of Carcinogenicity:

NOT ANTICIPATED.

### Signs And Symptoms Of Overexposure:

N/P (NO EFFECT NOTICED IN ROUTNE HANDLING OF PRODUCT)

### Medical Cond Aggravated By Exposure:

N/P; NOT A LIKELY EXPOSURE ROUTE

### First Aid:

SKIN: NOT A HEALTH HAZARD. EYES: NOT AN EYE HAZARD. INHALATION: NOT AN INHALATION HAZARD. INGESTION: IF SWALLOWED, SEEK EMERGENCY MEDICAL AID. IF PATIENT CHOKING AND CAN PARTIALLY BREATHE, ENCOURAGE PATIENT TO COUGH. DO NOT STRIKE PATIENT'S BACK, THIS MAY LODGE CELL FURTHER IN THROAT. IF PATIENT IS NOT BREATHING PERFORM STANDING HEIMLICH MANOEUVRE UNTIL OBJECT IS DISLODGE OR PATIENT BECOMES UNCONSCIOUS. AN UNCONSCIOUS PATIENT SHOULD BE LOWERED GENTLY TO THE FLOOR ON THEIR BACK AND ABDOMEN.

### Spill Release Procedures:

EVACUATE AREA IF FIRE PRESENT OR LIKELY. WEAR SCBA FOR FIRE-RELATED EMERGENCIES. USING GLOVES, PICK UP OR SWEEP UP FIRE-DAMAGED CELLS, BAG INDIVIDUALLY IN PLASTIC BAGS AND PLACE IN CLOSED METAL CONTAINERS.

### Neutralizing Agent:

N/P

### Waste Disposal Methods:

ALWAYS CONSULT AND OBEY ALL INTERNATIONAL, FEDERAL, PROVINCIAL/STATE AND LOCAL HAZARDOUS WASTE DISPOSAL LAWS. SOME JURISDICTIONS REQUIRE RECYCLING OF THIS SPENT PRODUCT.

### Handling And Storage Precautions:

STORE IN COOL, DRY PLACE AWAY FROM SPARKS AND FLAME. KEEP BELOW 125C. KEEP ABOVE -60C. CHARGE BETWEEN 0C AND 45C. USE ONLY APPROVED CHARGING EQUIPMENT. DO NOT DISASSEMBLE BATTERY OR BATTERY PACK. DO NOT PUNCTURE, CRUSH OR DISPOSE OF IN FIRE. STORE AT ROOM TEMPERATURE FOR BEST RESULTS. 8

### Other Precautions:

KEEP AWAY FROM HEAT AND OPEN FLAMES. STORE IN A COOL, DRY PLACE.

## Fire and Explosion Hazard Information

### Flash Point Method:

N/A

### Flash Point:

N/A

### Flash Point Text:

N/A

### Melt / Freeze Pt:

N/A

### Autoignition Temp:

N/A

### Autoignition Temp Text:

NONE

### Lower Limits:

NONE

### Upper Limits:

NONE

### Extinguishing Media:

WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM. USE AGENT APPROPRIATE FOR SURROUNDING MATERIALS.

### Fire Fighting Procedures:

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. EXTREMELY CORROSIVE HYDROGEN FLUORIDE GAS IS PRODUCED UPON COMBUSTION OF CELL CONTENTS.

### Unusual Fire/Explosion Hazard:

N/P

## Physical/Chemical Properties

### HCC:

76

### NRC/State LTC No:

N/A

### Net Prop WT For Ammo:

N/A

### Boiling Point:

N/A

### N/A/P Text:

N/A

### N/A/P/P Text:

N/A

### Decomp Temp:

N/A

### N/A/P/P Text:

N/A

### Vapor Pres:

N/A

### Vapor Density:

N/A

### Vapor Density:

N/A

### Volatile Org Content %:

NONE

### Spec Gravity:

1.5-2.0

### PH:

N/P

### VOC Pounds/liter:

N/A

### Viscosity:

N/A

### Evaporation Rate & Reference:

N/A

### Solubility in Water:

INSOLUBLE

### Appearance and Odor:

NICKEL PLATED METAL CANNISTER UNDER WHITE POLYOLEFIN LABEL

### Percent Volatiles by Volume:

N/P

### Corrosion Rate:

N/A

## Reactivity Data

### Stability Indicator:

YES 10

### Stability Condition To Avoid:

N/P

### Materials To Avoid:

DO NOT CRUSH, PUNCTURE, INCINERATE, IMMERSE IN WATER OR HEAT OVER 125C. STEEL CASTING SLOWLY DISSOLVES IN STRONG MINERAL ACIDS.

### Hazardous Decomposition Products:

HYDROGEN FLUORIDE, BORONIC OXIDE, CARBON MONOXIDE, LITHIUM HYDROXIDE, COBALT OXIDES, ALUMINUM OXIDE, POSSIBLE FLUORO-CARBON COMPOUNDS, CARBON SOOT.

### Hazardous Polymerization Indicator:

NO

### Will Not Occur. Spontaneous Decomposition At Normal Temperatures Will Not Occur.

## 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

### Other