

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-592/592-01-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
592-01-8  
**Code:**  
M

**RTECS:**  
EW0700000  
**Code:**  
M

**Name:**  
CALCIUM CYANIDE

**Other REC Limits:**  
N/K 1

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
5 MG/CUM  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
WEAR A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR W/A CANISTER SPECIFIC FOR HYDROGEN CYANIDE.

**Ventilation:**  
LOCAL EXHAUST WHERE POSSIBLE.

**Protective Gloves:**  
3 RUBBER

**Eye Protection:**  
N/K

**Other Protective Equipment:**  
Equipment RUBBER BOOTS, FULL LENGTH CLOTHING

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING &SHOES BEFORE REUSE. MAINTAIN GOOD HOUSEKEEPING TO CONTROL DUST.

**Supplemental Safety and Health:**  
SPECIAL FIRE: EVACUATE & ISOLATE AREA. DON'T HANDLE BROKEN PACKAGE W/O PROTECTIVE EQUIPMENT. WASH AWAY ANY MATERIAL THAT CONTACTED BODY W/COPIOUS AMOUNTS OF WATER/SOAP & WATER. CONTROL RUNOFF WATER. F IRST AID: FOLLOW DIRECTLY W/50 ML OF 25% SOLUTION OF SODIUM THIOSULFATE AT SAME RATE BY SAME ROUTE.

## Health Hazards Data

**LD50LC50Mixture:**  
ORAL LD50(RATS): 39 MG/KG

**Route Of Entry Inds - Inhalation:**  
NO

**Skin:**  
NO

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
EXTREMELY TOXIC. INGESTION: MAY CAUSE RAPID RESPIRATORY ARREST & DEATH. SKIN/EYES: MAY CAUSE IRRITATION.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
IRRITATION.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
2 EYES/SKIN: IMMEDIATELY FLUSH W/PLENTY OF WATER FOR 15 MINS. BREAK AN AMYL NITRITE PEARL IN CLOTH & HOLD LIGHTLY UNDER NOSE FOR 15 SECS. REPEAT 5 TIMES AT 15 SEC INTERVALS. ALTERNATE AMYL NITRITE INHAL ATIONS W/GIVING OXYGEN BY MASK. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTE TO PHYS: INJECT INTRAVENOUSLY 10 ML OF 3% SOLUTION OF SODIUM NITRITE AT RATE <2.5-5 ML PER MIN IF NO RESPONSE. (SUPP)

**Spill Release Procedures:**  
WEAR AN APPROVED POSITIVE PRESSURE SCBA. CAREFULLY SWEEP UP IMMEDIATELY & PLACE IN A CLOSED CONTAINER.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN DRY, WELL VENTILATED AREA. REMOVE IGNITION SOURCES FROM VICINITY OF FEEDING EQUIPMENT & AT POINT OF ENTRY OF DRY MATERIAL INTO SOLUTIONS.

**Other Precautions:**  
DONT HANDLE W/BARE HANDS. ALWAYS HAVE ON HAND A CYANIDE FIRST-AID KIT. REDRUM DAMAGED/PUNCTURED DRUMS. OPEN DRUMS W/NON-SPARKING TOOLS. WEAR ALL-PURPOSE, FULL FACE MASK & IMPERVIOUS CLOTHING, GLOVES & FOOTWEAR WHILE EMPTYING/TRANSFERRING.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/R

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
FOAM, CO2, DRY CHEMICAL.

**Fire Fighting Procedures:**  
WEAR A POSITIVE PRESSURE SCBA & FULL PROTECTIVE CLOTHING. CONDUCT FIRE FIGHTING & RESCUE OPERATIONS FROM UPWIND OF FIRE AREA. (SEE SUPP)

**Unusual Fire/Explosion Hazard:**  
VAPORS FROM FIRE ARE HAZARDOUS. MATERIAL TSELF DOESN'T BURN/BURNS W/DIFFICULTY. CONTACT W/ACIDS RELEASE FLAMMABLE & TOXIC HYDROGEN CYANIDE GAS.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt /Freeze Pt:**

**M.P/F.P Text:**  
1184F

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/R

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
BLACK TO GRAY FLAKES W/FAINT ODOR/BITTER ALMONDS.

**Percent Volatiles by Volume:**  
NONE

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
MOIST AIR &IGNITION SOURCES.

**Materials To Avoid:**  
WATER, ACIDS, STRONG OXIDIZING AGENTS.

**Hazardous Decomposition Products:**  
BY THERMAL DECOMPOSITION: HYDROGEN CYANIDE.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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