

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-779/7790-78-5.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
7790-78-5  
**Code:**  
M

**RTECS:**  
EV0178000  
**Code:**  
M

**Name:**  
CADMIUM CHLORIDE;CADMIUM CHLORIDE,HYDRATE(2:5); C

**Other REC Limits:**  
N/P

**OSHA PEL:**  
N/P  
**Code:**

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
5OUG/CUM(AS CD)  
**Code:**  
M

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

## Control Measures

**Respiratory Protection:**  
IF VENTILATION DOES NOT MAINTAIN INHALATION EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR SELECTION.

**Ventilation:**  
LOCAL AND/OR GENERAL EXHAUST TO KEEP EMPLOYEE EXPOSURES BELOW AIRBORNE EXPOSURE LIMITS.

**Protective Gloves:**  
RECOMMENDED

**Eye Protection:**  
CHEMICAL SAFETY GOGGLES.

**Other Protective Equipment:**  
Equipment CLEAN BODY-COVERING CLOTHING, EYE WASH FOUNTAIN, QUICK-DRENCH SHOWER

**Work Hygienic Practices:**  
WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

**Supplemental Safety and Health:**  
4 CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 ORAL RAT 88 MG/KG

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
RESPIRATORY TRACT IRRITATION, LUNG EDEMA, KIDNEY/LIVER DAMAGE, NECROSIS, SKIN IRRITATION, SKIN ABSORPTION POSSIBLE, EYE IRRITATION. CHRONIC EXPOSURE MAY CAUSE SLOW RENAL AND HEPATIC DETERIORATION, DEC REASE IN BONE DENSITY, KIDNEY STONES AND OTHER EVIDENCE OF DISTURBED CALCIUM METABOLISM. POWERFUL EMETIC.

**Explanation Of Carcinogenicity:**  
CERTAIN CADMIUM COMPOUNDS ARE LISTED AS CARCINOGENS BY THE NTP AND AS CLASS 2A BY IARC. 2

**Signs And Symptions Of Overexposure:**  
COUGHING, TIGHTNESS IN CHEST, POSSIBLE LUNG EDEMA, LIVER/KIDNEY DAMAGE WITH TUBULAR DISFUNCTION AND NECROSIS, SKIN RDENESS/DISCOMFORT, EYE IRRITATION/MECHANICAL ABRASION.

**Medical Cond Aggravated By Exposure:**  
PRESONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

**First Aid:**  
INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING IMMEDIATELY BY GIVING 2 GLASSES OF WATER AND STICKING FINGER DOWN THROAT. CONTACT PHYSICIAN.

**Spill Release Procedures:**  
CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION FROM DUST. COLLECT BY SCOOPING, MOPPING OR WET VACUUMING AS APPROPRIATE. DO NOT FLUSH TO SEWER.

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN COOL, DRY PLACE. PROTECT AGAINST PHYSICAL DAMAGE. DO NOT BREATHE DUST. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

**Other Precautions:**  
WASH CONTAMINATED CLOTHING AND SHOES BEFORE REUSE. AVOID CROSS-CONTAMINATION OF STREET CLOTHES.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONFLAMMABLE 3

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
NOT GIVEN

**Upper Limits:**  
NOT GIVEN

**Extinguishing Media:**  
NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

**Fire Fighting Procedures:**  
FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.

**Unusual Fire/Explosion Hazard:**  
NONE SPECIFIED BY MANUFACTURER.

## Physical/Chemical Properties

**HCC:**  
T6

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
1760F,960C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
1054F,568C

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
10

**Vapor Density:**  
NOT GIVEN

**Volatile Org Content %:**

**Spec Gravity:**  
DENSITY 4.05

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
NOT GIVEN

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
COLORLESS, ODORLESS CRYSTALS

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE SPECIFIED BY MANUFACTURER.

**Materials To Avoid:**  
BROMINE TRIFLUORIDE, POTASSIUM

**Hazardous Decomposition Products:**  
OXIDES OF THE CONTAINED METAL AND HALOGEN, POSSIBLY ALSO FREE, OR IONIC HALOGEN.

**Hazardous Polymerization Indicator:**  
NO 5

**Conditions To Avoid Polymerization:**  
NONE. 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