

MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- CADMIUM CHLORIDE ANHYDROUS --  
6810-00-957-8058

===== Product Identification =====

Product ID:CADMIUM CHLORIDE ANHYDROUS

MSDS Date:04/06/1989

FSC:6810

NIIN:00-957-8058

MSDS Number: BFZCL

=== Responsible Party ===

Company Name:MALLINCKRODT INC SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:31

4-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:CADMIUM CHLORIDE;CADMIUM CHLORIDE,HYDRATE(2:5); CAS  
#7790-78-5; OSHA PEL:200UG/CUM(ASCD)

CAS:7790-78-5

RTECS #:EV0178000

Fraction by Wt: >99%

ACGIH TLV:50UG/CUM(AS C

D)

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===== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL RAT 88 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity: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.

Effects 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 E

YE PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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===== First Aid Measures =====

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.

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===== Fire Fighting Measures =====

Flash Point:NONFLAMMABLE

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/Explosi

on Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidental Release Measures =====

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.

===== Handling and Storage =====

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.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES 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: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

CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

===== Physical/Chemical Properties =====

HCC:T6

Boiling Pt:B.P. Text:1760F,960C

Melt/Freeze Pt:M.P/F.P Text:1054F,568C

Vapor Pres:10

Vapor Density:NOT GIVEN

Spec Gravity:DENSITY 4.05

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS, ODORLESS CRYSTALS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

BROMINE TRIFLUORIDE, POTASSIUM

SSIUM

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

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

===== Disposal Considerations =====

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.

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