



## Section 1 - Chemical Product and Company Identification

**Product Name** Cadmium Oxide extrapure AR, 99.7%  
**Product Code** 39818  
**CAS No** 1306-19-0  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
1306-19-0	Cadmium Oxide	99%	215-146-2

## Section 3 - Hazards Identification

### Special Indication Of Hazards To Humans And The Environment

May cause cancer. Very toxic by inhalation.

Toxic: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
Possible risk of impaired fertility. Possible risk of harm to the unborn child.  
Possible risk of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 4 - First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

## Section 5 - Fire Fighting Measures

### Explosion Data

**Dust Potential:** This material, like most materials in powder form, is capable of creating a dust explosion.

### Extinguishing Media

**Suitable:** Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

### Special Protective

**Equipment For Firefighters:** Wear self-contained breathing apparatus and protective Clothing to prevent contact with skin and eyes.

## Section 6 - Accidental Release Measures



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### Personal Precaution Procedures

#### To Be Followed In Case Of

**Leak Or Spill:** Evacuate area.

#### Procedure(S) Of Personal

**Precaution(S):** Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

**Methods For Cleaning Up:** Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

### Section 7 - Handling and Storage

**Handling:** Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Storage:** Keep tightly closed. Store in a cool dry place.

### Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Use only in a chemical fume hood. Safety shower and eye bath.

**General Hygiene Measures:** Wash thoroughly after handling.

Exposure Limits - Denmark Source Type Value OEL TWA 0.01 mg/m<sup>3</sup>

Exposure Limits - Norway Source Type Value OEL 0.02 mg/m<sup>3</sup>

Remarks: KT

Exposure Limits-Switzerland Source Type Value OEL OEL 0.002 mg/m<sup>3</sup>

Remarks: A M K

Exposure Limits-UK Source Type Value OEL OEL 0.025 mg/m<sup>3</sup>  
OEL STEL 0.05 mg/m<sup>3</sup>

#### Personal Protective Equipment

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Molecular Formula:** CdO

**Molecular Weight:** 128.40

### Section 10 - Stability and Reactivity

**Materials to Avoid:** Oxidizing agents.

#### Hazardous Decomposition

**Products :** Nature of decomposition products not known.



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## Section 11 - Toxicological Information



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RTECS Number: EV1925000

Acute Toxicity

LD50	OralRat	72 mg/kg	
LD50	IntraperitonealRat	12 MG/KG	
LD50	IntravenousRat	25 MG/KG	
LD50	OralMouse	72 mg/kg	
LC50	InhalationMouse	250 mg/m3	2H
LD50	SubcutaneousMouse	94 MG/KG	
LC50	InhalationDog	4,000 mg/m3	10M
LC50	InhalationMonkey	1,500 mg/m3	10M
LC50	InhalationRabbit	2,500 mg/m3	10M
LC50	InhalationGuinea pig	3,500 mg/m3	10M
LD50	OralMammal	72 mg/kg	

### Signs And Symptoms

**Of Exposure:** Damage to the kidneys. Damage to the lungs.

### Route Of Exposure

Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

Multiple Routes: May be fatal if inhaled, swallowed, or absorbed through skin. Causes eye and skin irritation.

**Target Organ Information:** Damage to the kidneys. Damage to the lungs. Kidneys. Lungs.

### Chronic Exposure - Carcinogen

Result: Carcinogen.Rat

Route of Application: Subcutaneous

Result: Tumorigenic: Neoplastic by RTECS criteria.

Tumorigenic: Tumors at site or application.

### IARC Carcinogen List

Rating: Group 1

### Chronic Exposure - Teratogen

Species: Rat

Dose: 21640 UG/KG

Route of Application: Oral

Exposure Time: (1-19D PREG)

Result:

Effects on Embryo or Fetus: Fetal death. Effects on

Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Maternal-fetal exchange.

Species: Rat

Dose: 21640 UG/KG

Route of Application: Oral

Exposure Time: (1-19D PREG)

Result:



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Specific Developmental

Abnormalities: Cardiovascular (circulatory) system.

Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Species: Rat

Dose: 91 UG/M3

Route of Application: Inhalation

Exposure Time: (1-19D PREG)

Result:

Effects on Embryo or Fetus: Fetotoxicity (except death,e.g., stunted fetus).

Species: Rat

Dose: 2 MG/M3/6H

Route of Application: Inhalation

Exposure Time: (4-19D PREG)

Result:

Specific Developmental

Abnormalities: Musculoskeletal system.

Effects on Embryo or Fetus: Fetotoxicity (except death,e.g., stunted fetus).

### Chronic Exposure - Reproductive Hazard

Species: Rat

Dose: 183 UG/M3/5H

Route of Application: Inhalation

Exposure Time: (21W PRE/1-20D PREG)

Result:

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive).

Species: Rat

Dose: 23 UG/M3/5H

Route of Application: Inhalation

Exposure Time: (21W PRE/1-20D PREG)

Result: Effects on Newborn: Behavioral.

Species: Rat

Dose: 16 UG/M3/24H

Route of Application: Inhalation

Exposure Time: (1-21D PREG)

Result:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count).

Species: Mouse

Dose: 2 MG/M3/6H

Route of Application: Inhalation

Exposure Time: (4-17D PREG)

Result:



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Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Mouse

Dose: 500 UG/M3/6H

Route of Application: Inhalation

Exposure Time: (4-17D PREG)

Result: Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Substance Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Cadmium Compound	Cadmium compound	Cadmium compound
Hazard Class:	6.1	6.1	6.1
UN Number:	2570	2570	2570
Packing Group:	III	III	III

## Section 15 - Regulatory Information

### Classification And Labeling According To Eu Directives

**Indication Of Danger:** T+-N Very toxic. Dangerous for the environment.

**R-Phrases:** 45-26-48/23/25-62-63-68-50/53 May cause cancer. Very toxic by inhalation. Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Possible risk of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-Phrases:** 53-45-60-61 Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment.



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## **Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.