



MATERIAL SAFETY DATA SHEET

CADMIUM OXIDE, BROWN

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Cadmium oxide, brown, 99%

Catalog Numbers: 22379-0000, 22379-5000

Synonyms:
Un Listed

Company Information:
LEONID CHEMICALS
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	1306-19-0
Chemical Name	:	Cadmium oxide
%	:	99%
EINECS#	:	215-146-2
Hazard Symbols	:	T
Risk Phrases	:	22 49 48/23/25

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. May cause cancer by inhalation. Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

Potential Health Effects

Eye:
May cause eye irritation.
Skin:
May cause skin irritation.
Ingestion:
Poison by ingestion.
Inhalation:
Toxic if inhaled.
Chronic:
Not available.

SECTION 4- FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid immediately. Wash mouth out with water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Un Listed

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Powder
Color	:	red - brown
Odor	:	Not available.
pH	:	Not available.
Vapor Pressure	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	1385 deg C @ 760.00mmHg
Freezing/Melting Point	:	Not available.
Autoignition Temperature	:	Not available.
Flash Point	:	Not available.
Explosion Limits, lower	:	Not available.
Explosion Limits, upper	:	Not available.
Decomposition Temperature	:	>700 deg C
Solubility in water	:	Negligible.
Specific Gravity/Density	:	Un Listed
Molecular Formula	:	CdO
Molecular Weight	:	128.40

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Oxidizing agents, acids.

Hazardous Decomposition Products:

Not available.

Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 1306-19-0: Ev1925000

LD50/LC50:

CAS# 1306-19-0: Inhalation, mouse: LC50 = 250 mg/m³/2H; Inhalation, rabbit: LC50 = 2500 mg/m³/10M; Inhalation, rat: LC50 = 45 mg/m³/1H; Oral, mouse: LD50 = 67 mg/kg; Oral, rat: LD50 = 72 mg/kg.

Carcinogenicity:

Cadmium oxide -

NIOSH: potential occupational carcinogen (fume, as Cd)

OSHA: Select carcinogen

Other:

Un Listed

SECTION 12 - ECOLOGICAL INFORMATION

Un Listed

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name : CADMIUM COMPOUND
Hazard Class : 6.1
UN Number : 2570
Packing Group : III

IMO

Shipping Name : CADMIUM COMPOUND
Hazard Class : 6.1
UN Number : 2570
Packing Group : III

ID/ADR

Shipping Name : CADMIUM COMPOUND
Hazard Class : 6.1
UN Number : 2570
Packing Group : III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:

T

Risk Phrases:

R 49 May cause cancer by inhalation.

R 22 Harmful if swallowed.

R 48/23/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 1306-19-0: 3

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

CAS# 1306-19-0: MEL-United Kingdom, TWA 0.025 mg/m³ TWA (as Cd)

CAS# 1306-19-0: MEL-United Kingdom, STEL 0.05 mg/m³ STEL (as Cd)

Canada

CAS# 1306-19-0 is listed on Canada's DSL List.

CAS# 1306-19-0 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1306-19-0: OEL-AUSTRALIA:TWA 0.05 mg/m³;CAR (fume)

OEL-BELGIUM:STEL 0.05 mg/m³;CAR (fume)

OEL-BELGIUM:TWA 0.05 mg/m³

OEL-DENMARK:TWA 0.01 mg/m³ (fume)

OEL-FINLAND:TWA 0.01 mg/m³;CAR (fume)

OEL-FINLAND;Carcinogen

OEL-FRANCE:STEL 0.05 mg/m³ (fume)

OEL-FRANCE:TWA 0.05 mg/m³

OEL-GERMANY;Carcinogen

OEL-HUNGARY:STEL 0.05 mg/m³;Carcinogen

OEL-HUNGARY:STEL 0.05 mg/m³;CAR (fume)

OEL-THE NETHERLANDS:TWA 0.05 mg/m³ (fume)

OEL-THE PHILIPPINES:TWA 0.1 mg/m³ (fume)

OEL-POLAND:TWA 0.1 mg/m³ (fume)

OEL-SWITZERLAND:TWA 0.05 mg/m³

OEL-SWITZERLAND:TWA 0.05 mg/m³ (fume)

OEL-THAILAND:TWA 0.1 mg/m³;STEL 0.3 mg/m³ (fume)

OEL-TURKEY:TWA 0.1 mg/m³ (fume)

OEL-UNITED KINGDOM:TWA 0.05 mg/m³;STEL 0.5 mg/m³ (fume)

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

OEL-ARAB Republic of Egypt:TWA 0.05 mg(Cd)/m³

OEL-AUSTRALIA:TWA 0.05 mg(Cd)/m³

OEL-BELGIUM:TWA 0.05 mg(Cd)/m³

OEL-CZECHOSLOVAKIA:TWA 0.05 mg(Cd)/m³;STEL 0.1 mg(Cd)/m³

OEL-DENMARK:TWA 0.01 mg(Cd)/m³

OEL-FINLAND:TWA 0.02 mg(Cd)/m³;Carcinogen

OEL-GERMANY;Carcinogen

OEL-INDIA:TWA 0.05 mg(Cd)/m³

OEL-JAPAN:TWA 0.05 mg(Cd)/m³

US FEDERAL

TSCA

CAS# 1306-19-0 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.