



# CADMIUM-113 METAL (113Cd)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 3.0

CDLM-786

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance  
Substance name : CADMIUM-113 METAL (113Cd)  
EC Index-No. : 048-002-00-0 (Unlabeled)  
EC-No. : 231-152-8 (Unlabeled)  
CAS-No. : 14336-66-4  
Product code : CDLM-786  
Formula : \*Cd

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 2 (Inhalation) H330  
Muta. 2 H341  
Carc. 1B H350  
Repr. 2 H361  
STOT RE 1 H372  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T+; R26  
Muta.Cat.3; R68  
Carc.Cat.2; R45  
Carc.Cat.1; R49  
N; R50/53  
Repr.Cat.3; R62  
Repr.Cat.3; R63  
T; R48/23/24/25

Full text of R-phrases: see section 16

#### GHS-US classification

Acute Tox. 2 (Inhalation) H330  
Muta. 2 H341  
Carc. 1B H350  
Repr. 2 H361

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STOT RE 1                    H372  
Aquatic Acute 1            H400  
Aquatic Chronic 1        H410

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

Lungs, Kidney.

## 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H330 - Fatal if inhaled  
H341 - Suspected of causing genetic defects (in contact with skin, if inhaled, if swallowed)  
H350 - May cause cancer (in contact with skin, if inhaled, if swallowed)  
H361 - Suspected of damaging fertility. Suspected of damaging the unborn child. (in contact with skin, if inhaled, if swallowed)  
H372 - Causes damage to organs (kidneys, lungs) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed)  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P260 - Do not breathe dust, fume, gas, mist, spray, vapors.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, protective gloves.  
P284 - [In case of inadequate ventilation] wear respiratory protection..  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H330 - Fatal if inhaled  
H341 - Suspected of causing genetic defects (Dermal, Inhalation, oral)  
H350 - May cause cancer (Dermal, Inhalation, oral)  
H361 - Suspected of damaging fertility or the unborn child. (Dermal, Inhalation, oral)  
H372 - Causes damage to organs (kidneys, liver) through prolonged or repeated exposure (Dermal, Inhalation, oral)  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, protective gloves.  
P284 - [In case of inadequate ventilation] wear wear respiratory protection..  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a doctor, a POISON CENTER  
P314 - Get medical advice/attention if you feel unwell.  
P320 - Specific treatment is urgent (see First aid measures on this label)  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
CADMIUM-113 METAL (113Cd)	(CAS-No.) 14336-66-4 (EC-No.) 231-152-8 (Unlabeled) (EC Index-No.) 048-002-00-0 (Unlabeled)	100	T+; R26 Muta.Cat.3; R68 Carc.Cat.2; R45 Carc.Cat.1; R49 N; R50/53 Repr.Cat.3; R62 Repr.Cat.3; R63 T; R48/23/24/25
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CADMIUM-113 METAL (113Cd)	(CAS-No.) 14336-66-4 (EC-No.) 231-152-8 (Unlabeled) (EC Index-No.) 048-002-00-0 (Unlabeled)	100	Acute Tox. 2 (Inhalation), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
CADMIUM-113 METAL (113Cd) (Main constituent)	(CAS-No.) 14336-66-4	100	Acute Tox. 2 (Inhalation), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Take immediately victim to hospital. Call a physician immediately.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Suspected of causing genetic defects (in contact with skin, if inhaled, if swallowed). May cause cancer (in contact with skin, if inhaled, if swallowed). Suspected of damaging fertility. Suspected of damaging the unborn child. (in contact with skin, if inhaled, if swallowed). Causes damage to organs (liver, kidneys) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Fatal if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol resistant foam. Dry chemical. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. Fight fire from safe distance and protected location.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Wear respiratory protection. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate danger area. Avoid dust formation.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

CADMIUM-113 METAL (113Cd) (14336-66-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Kidney damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Suspected human carcinogen varies.; Component: Cadmium CAS-No.: 7440-43-9 Value: TWA Control Parameter: 0.002 mg/m <sup>3</sup> Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Kidney damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Suspected human carcinogen varies.

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CADMIUM-113 METAL (113Cd) (14336-66-4)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-2 Remarks: This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027 is stayed or otherwise not in effect.; Component: Cadmium CAS-No.: 7440-43-9 Control Parameters: TWA Value: 0.2 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-2 Remarks: Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect.
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-2 Remark: Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect.; Component: Cadmium CAS-No.: 7440-43-9 Control Parameters: CEIL Value: 0.6 mg/m <sup>3</sup> Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-2 Remarks: Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. Remark: Potential Occupational Carcinogen See Appendix A.; Component: Cadmium CAS-No.: 7440-43-9 Control Parameters: PEL Value: 0.005 mg/m <sup>3</sup> Basis: OSHA Specifically Regulated Chemicals/Carcinogens Remarks: 1910.1027 This standard applies to all occupational exposures to cadmium and cadmium compounds, in all forms, and in all industries covered by the Occupational Safety and Health Act, except the construction-related industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen.; Component: Cadmium CAS-No.: 7440-43-9 Control Parameters: PEL Value: 0.005 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) Remarks: see Sections 1532 & 5207
USA OSHA	Remark (OSHA)	Substance listed; for more information see OSHA document 1910.1027

### 8.2. Exposure controls

Appropriate engineering controls	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
	
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder
Molecular mass	: 113 g/mol (Labeled)
Color	: Light gray
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available

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Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 320.9 °C (609.6 °F)
Freezing point	: No data available
Boiling point	: 765 °C (1,409 °F) at 1,013 hPa (760 mmHg)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 8.65 g/cm <sup>3</sup> at 25 °C (77 °F)
Solubility	: Water: 0.0023 g/l at 20 °C (68 °F)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Not available.

### 10.5. Incompatible materials

Oxidizing agents. Acids.

### 10.6. Hazardous decomposition products

Cadmium/cadmium oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Inhalation: Fatal if inhaled.

CADMIUM-113 METAL (113Cd) (14336-66-4)	
LD50 oral rat	2330 mg/kg
ATE CLP (oral)	2330.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.500 mg/l/4h
ATE CLP (dust, mist)	0.050 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: In vitro tests showed mutagenic effects.
Carcinogenicity	: Possible human carcinogen
Reproductive toxicity	: Damage to fetus possible. Suspected human reproductive toxicant.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Causes damage to organs (kidneys, lungs) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed). Causes damage to organs through prolonged or repeated exposure

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Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Damage to the lungs. Kidney injury may occur. Prolonged or repeated exposure may cause: Vomiting. Diarrhea. Lung irritation. Stomach - Irregularities - Based on Human Evidence.
IARC group	: 1
Symptoms/effects after inhalation	: Fatal if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

CADMIUM-113 METAL (113Cd) (14336-66-4)	
LC50 fish 1	0.001 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	0.024 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	0.023 mg/l static test EC50 - Selenastrum capricornutum (green algae) - 72 h

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

CADMIUM-113 METAL (113Cd) (14336-66-4)	
BCF fish 1	1.27 ug/l - Oncorhynchus mykiss (Rainbow trout) - 72 h
Bioconcentration factor (BCF REACH)	55

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Environmental precautions. Disposal must be done according to official regulations. Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No.(DOT)	: 3288
DOT NA no.	UN3288

### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Toxic solid, inorganic, n.o.s. (Cadmium)
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison



DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger



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DOT Special Provisions (49 CFR 172.102)	: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT RQ	: 10 lbs
Marine pollutant	: No



### 14.3. Additional information

Emergency Response Guide (ERG) Number	: 151
Other information	: No supplementary information available.

### Overland transport

Packing group (ADR)	: II
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T5
Hazard labels (ADR)	: 6.1 - Toxic substances



Orange plates	: 
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Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 500g
EAC	: 2X
Excepted quantities (ADR)	: E4

### Transport by sea

DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 151



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### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 25 kg  
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 100 kg  
CFR 175.75)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

### 14.4. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

CADMIUM-113 METAL (113Cd) (14336-66-4)	
CERCLA RQ	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

### 15.2. International regulations

#### CANADA

CADMIUM-113 METAL (113Cd) (14336-66-4)
Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

CADMIUM-113 METAL (113Cd)(14336-66-4)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
No significant risk level (NSRL)	4.1 µg/day
State or local regulations	RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2

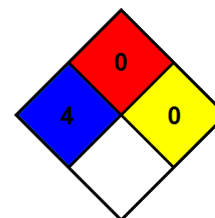
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Repr. 2	Reproductive toxicity Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R26	Very toxic by inhalation
R45	May cause cancer
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R68	Possible risk of irreversible effects
N	Dangerous for the environment
T	Toxic
T+	Very toxic

- NFPA health hazard : 4 - Materials that, under emergency conditions, can be lethal.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

- Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
- Flammability : 0 Minimal Hazard
- Physical : 0 Minimal Hazard

### CIL Substance SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*