

# Cadmium Metal Powder CAS No 7440-43-9

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	: Cadmium Metal Powder
	CAS-No.	: 7440-43-9
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against	
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of t Company	the safety data sheet : Pallav Chemicals & Solvents Pvt. Ltd 253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050 INDIA
	Telephone Email	: +91 22 4928 4000 : sales@pallavchemicals.com

## 1.4 Emergency telephone number

Emergency Phone # : +91 22 4928 4000 (9:00am - 6:00 pm) [Office hours]

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Inhalation (Category 2), H330 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 2), H361fd Specific target organ toxicity - repeated exposure (Category 1), H372 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word

Hazard statement(s) H330 H341 H350 H361fd H372 H410	Fatal if inhaled. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.	
Precautionary statement(s)		
P201	Obtain special instructions before use.	
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.	
P273	Avoid release to the environment.	
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF exposed	
P308 + P313	or concerned: Get medical advice/ attention. Store in a well-	
P403 + P233	ventilated place. Keep container tightly closed.	
Supplemental Hazard	none	
Statements		
Restricted to professional users.		

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

Formula	:	Cd
Molecular weight	:	112.41 g/mol
CAS-No.	:	7440-43-9
EC-No.	:	231-152-8
Index-No.	:	048-002-00-0

#### Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

**Cadmium** Included in the Candidate List of Substances of Very High Concern (SVHC) according

to Regulation (EC) No	. 1907/2006 (REACH)		
CAS-No.	7440-43-9	Acute Tox. 2; Muta. 2; Carc.	<= 100 %
EC-No.	231-152-8	1B; Repr. 2; STOT RE 1;	
Index-No.	048-002-00-0	Aquatic Acute 1; Aquatic	
		Chronic 1; H330, H341, H350,	
		H361fd, H372, H400, H410	
		M-Factor - Aquatic Acute:	
		1,000	

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

Concentration

If swallowed

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 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- Special hazards arising from the substance or 5.2 mixture Cadmium/cadmium oxides
- 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 **Further information** No data available

### **SECTION 6: Accidental release measures**

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling 7.1

Avoid contact with skin and eves. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities 7.2

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

#### Air sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### 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

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

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

a)	Appearance	Form: powder Colour: light grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 320.9 °C - lit.
f)	Initial boiling point and boiling range	765 °C - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	8.65 g/cm3 at 25 °C
n)	Water solubility	0.0023 g/l at 20 °C

	o)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2	2 Other safety information No data available		
SECTION 10: Stability and reactivity			
10.1	<b>Reactivity</b> No data available		
10.2	Che	emical stability	

Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available

10.5 Incompatible materials

Oxidizing agents, acids

## 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Cadmium/cadmium oxides

Other decomposition products - No data available In the event of fire: see section 5

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 2,330 mg/kg(Cadmium) Inhalation: No data available(Cadmium)

## Skin corrosion/irritation

No data available(Cadmium)

Serious eye damage/eye irritation No data available(Cadmium)

Respiratory or skin sensitisation No data available(Cadmium)

#### Germ cell mutagenicity

No data available(Cadmium)

#### Carcinogenicity

#### **Reproductive toxicity**

No data available(Cadmium)

Specific target organ toxicity - single exposure No data available(Cadmium)

Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available(Cadmium)

#### Additional Information

RTECS: EU9800000

Damage to the lungs., Kidney injury may occur., prolonged or repeated exposure can cause:, Vomiting, Diarrhoea, Lung irritation(Cadmium)

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0.001 mg/l - 96 h(Cadmium)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.024 mg/l  - 48 h(Cadmium)
Toxicity to algae	static test EC50 - Selenastrum capricornutum (green algae) - 0.023 mg/l - 72 h(Cadmium) (OECD Test Guideline 201)

## 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

Bioaccumulation

Oncorhynchus mykiss (rainbow trout) - 72 d - 1.27 µg/l(Cadmium)

Bioconcentration factor (BCF): 55

#### 12.4 Mobility in soil

No data available(Cadmium)

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

### Contaminated packaging

Dispose of as unused product

#### **SECTION 14: Transport information**

### 14.1 UN number

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ADR/RID: 3288

IMDG: 3288

IATA: 3288

#### 14.2 UN proper shipping name

ADR/RID:	TOXIC SOLID, INORGANIC, N.O.S. (Cadmium)		
IMDG:	TOXIC SOLID, INORGANIC, N.O.S. (Cadmium)		
IATA:	Toxic solid, inorganic, n.o.s. (Cadmium)		
14.2 Transport bazard class(as)			

14.3 Transport hazard class(es) ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4 Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
<b>14.6 Special precautions for user</b> No data available		

#### **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Authorisations and/or restrictions on use

#### **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging 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.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.