

# Material Safety Data Sheet



**CADMIUM (METAL) GRANULAR 99.9% AR**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 13128**

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name :** CADMIUM (METAL) GRANULAR 99.9% AR

**Product code :** 13128

**Identification of the product :** Cadmium (Metal) Granular

**CAS No :** 7440- 43- 9

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

**Use :** Industrial. For professional use only.

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

**Company identification :** MOLYCHEM

**Office:** 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

**Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### **1.4. Emergency telephone number**

**Emergency number :** +91 22 4066 8111 (10:00am - 6:00 pm)

## **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**

**Symbol(s) :** T : Very toxic

N : Dangerous for the environment

Highly flammable



**R Phrase(s) :** R45 :May cause cancer.

R17 : Spontaneously flammable in air.

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R26 : Very toxic by inhalation.

R48/23/25 : Danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R62: Possible risk of impaired fertility.

R63 : Possible risk of harm to the unborn child.

R68: Possible risk of irreversible effects.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment

**S Phrase(s) : S53 : Avoid exposure – obtain special instruction before use.**

S7/8 : Keep container tightly closed and dry.

S43 : In case of fire, use ...(indicate in the space the precise type of fire-fighting equipment. If water increase the risk, add-never use water)

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 : This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment . refer to special instruction/safety data sheets.

## **Labelling according Regulation (EC) No 1272/2008**

### **Hazard pictograms:**



**Signal word:** Danger

### **Hazard statement(s)**

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.

H410 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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### **Supplemental Hazard Statements : none**

Restricted to professional users.

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## **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.

## **3. Composition/information on ingredients**

### **3.1 Substances : Cadmium (Metal) Granular**

CAS-No. : 7440-43-9

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

<b>Substance name</b>	<b>Contents</b>	<b>CAS No</b>
Cadmium (Metal) Granular.	100%	7440-43-9

Substance.

Contains no other components or impurities which will influence the classification of the product.

## **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.

#### **•If 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.

#### **•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

## **5. Firefighting measures**

### **5.1 Extinguishing media**

**Suitable extinguishing media**

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Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## **5.2 Special hazards arising from the substance or 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

## **6. Accidental release measures**

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

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.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. 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.

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

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

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

**Appropriate engineering controls**

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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.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### •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.

## 9. Physical and chemical properties

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

**Odour Threshold:** No data available

**pH:** No data available

**Melting point/range:** 320.9 °C - lit.

**Initial boiling point and boiling range :**765 °C - lit.

**Flash point:** Not applicable

**Evaporation rate:** No data available

**Flammability (solid, gas) :**No data available

**Upper/lower flammability or explosive limits :**No data available

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**Vapour pressure :** No data available

**Vapour density :** No data available

**Relative density:** 8.65 g/cm<sup>3</sup> at 25 °C

**Water solubility** 0.0023 g/l at 20 °C

**Partition coefficient: noctanol/ water :** No data available

**Auto-ignition temperature :**No data available

**Decomposition temperature :**No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

## **9.2 Other safety information**

No data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical 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 -

## **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)

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## •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)

## **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

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## **13. Disposal considerations**

### **13.1 Waste treatment methods Product**

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

#### **•Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **14.1 UN number**

ADR/RID: 2570 IMDG: 2570 IATA: 2570

### **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)

### **14.3 Transport hazard class(es)**

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

### **14.4 Packaging group**

ADR/RID: I IMDG: I IATA: I

### **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

### **14.6 Special precautions for user**

No data available

## **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

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

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## **End of document**

**Prepared by: MOLYCHEM (INDIA)**

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