

# 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 Acetate Dihydrate

CAS-No. : 5743-04-4

1.2 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 the safety data sheet

Company Bio-Chem Chemicals

5455 NicholsonRoad, Science Market Ambala Cantt, 133001 - Haryana

+91 82952 41953 info@biofinechemical.com - www.biofinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4),

H312 Carcinogenicity (Category 1B), H350 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.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

XnHarmfulR20/21/22NDangerous for theR50/53

environment

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Hazard statement(s) Danger

H302 + H312 + H332

H350 Harmful if swallowed, in contact with skin or if inhaled

H410 May cause cancer.

Precautionary statement(s) Very toxic to aquatic life with long lasting effects.

P201

P261 Obtain special instructions before use.

P273 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Avoid release to the environment.

P308 + P313 Wear protective gloves/ protective clothing.

P501 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Dispose of contents/ container to an approved waste disposal plant.

Statements none

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

#### 3.1 Substances

Synonyms : Acetic acid, cadmium salt, dihydrate

Formula : C4H6CdO4 · 2H2O

Molecular weight : 266,53 g/mol

CAS-No. : 5743-04-4

EC-No. : 208-853-2

Index-No. : 048-001-00-5

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

Component Classification Concentration

Cadmium acetate dihydrate

CAS-No. 5743-04-4 Acute Tox. 4; Carc. 1B; <= 100 %

EC-No. 208-853-2 Aquatic Acute 1; Aquatic Index-No. 048-001-00-5 Chronic 1; H302 + H312 +

H332, H350, H410

Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

Cadmium acetate dihydrate

CAS-No. 5743-04-4 Xn, N, R20/21/22 - R50/53 <= 100 %

EC-No. 208-853-2 Index-No. 048-001-00-5

For the full text of the H-Statements and R-Phrases 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.

If bire at led 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. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

4.2 Most important symptoms and effects, both acute and delayed

Thewatistive ortant known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 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.

5.2 Special hazards arising from the substance or mixture Nature of decomposition products not known.

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

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. 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

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. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

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

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Personal protective equipment

## Eye/face protection

Safety glasses with side-shields conforming to EN166 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 a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a 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

a) Appearance b)

# 9.1 Information on basic physical and chemical properties

Form: solid No

a) / ippoararioo a)		
Odour		data available No
c) d)Odour Threshold		data available No
e) Melting point/freezing		data available
		No data available
	point	
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
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		No data available

n) Water solubilityNo data availableo) Partition coefficient: n-No data available

octanol/water

p) Auto-ignition No data available

temperature

temperature

Viscosity
 No data available
 Explosive properties
 No data available
 Oxidizing properties
 No data available

9.2 Other safety information

No data available

#### SECTION 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

10.6 Hazardous decomposition products

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 - 360 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Cadmium acetate dihydrate)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

## Aspiration hazard

No data available

Additional Information

## SECTION # & SECTION # SECT

#### 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

## 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.

#### 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 chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

# SECTION 14: Transport information

14.1 UN number

ADR/RID: 3077 IMDG: 3077 IATA: 3077

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium acetate

dihydrate)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium acetate

.\_. dihydrate)

IATA: Environmentally hazardous substance, solid, n.o.s. (Cadmium acetate dihydrate)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

## Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

#### 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.

# Full text of R-phrases referred to under sections 2 and 3

N Xn Dangerous for the environment Harmful Harmful by inhalation, in contact with skin

R20/21/22 and if swallowed.

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

environment.

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall beused only as a guide. The information in this document is based on the present state of our knowledgeand is applicable to the product with regard to appropriate safety precautions. It does not representany guarantee of the properties of the product. Bio-Chem Chemicals and its Affiliates shall not be heldliable for any damage resulting from handling or from contact with the above product. See www.biofinechemical.com for additional terms and conditions of sale.