



WEST BENGAL CHEMICAL INDUSTRIES LIMITED  
145/1, Jessore Road, Lake Town,  
Kolkata – 700 089, India.  
Phone: +9133 4025 1700 Fax: +9133 2574 7410  
Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com) Website: [www.wbcil.com](http://www.wbcil.com)

## Section 1 - Chemical Product and Company Identification

1.1 MSDS Name: Zinc Acetate Dihydrate

1.2 Product Code: ZAD9600

1.3 Company Identification:

WEST BENGAL CHEMICAL INDUSTRIES  
LIMITED

145/1, Jessore Road, Lake Town,  
Kolkata – 700 089, India.

Phone: +91 33 4025 1700

Website: [www.wbcil.com](http://www.wbcil.com)

Emergency Telephone No.: +91 9874356081

Fax: +91 33 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

## 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

Eye irritation (Category 2), H319

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

Xn, N Harmful, Dangerous for the environment R22, R36, R50/53

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

Warning





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

Hazard statement(s)

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements: none

2.3 Other hazards - none

### Section 3 - Composition / Information on Ingredients

Chemical Name : Zinc Acetate Dihydrate  
Molecular Formula :  $C_4H_6O_4Zn \cdot 2H_2O$   
Molecular Weight : 219,51 g/mol  
CAS Number : 5970-45-6  
EC Number : 209-170-2

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

Component	Classification	Concentration
CAS-No. 5970-45-6 EC-No. 209-170-2	Acute Tox. 4; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H319, H410	<= 100 %

Hazardous ingredients as per Directive 1999/45/EC		
Component	Classification	Concentration
CAS-No. 5970-45-6 EC-No. 209-170-2	Xn, N, R22 - R36 - R50/53	<= 100 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

## 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 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. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 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 - Fire-Fighting 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

Carbon oxides, Zinc/zinc oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

## 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. 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.

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

## 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.





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

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

Appearance Form

Form	:	Crystalline or Granules
Color	:	White
Odour	:	Slight acetous Odour
pH (5% w/v )	:	6.00 – 8.0
Melting point/freezing point	:	237 °C
Initial boiling point and boiling range	:	no data available
Sublimation Temperature:	:	no data available
Density:	:	no data available
Vapour pressure	:	no data available
Vapour density	:	no data available





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

Refractive density	:	1,840 g/cm <sup>3</sup>
Water solubility	:	Freely soluble in water
Decomposition temperature	:	no data available
Viscosity	:	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

Oxidizing agents

### 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 - 794 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Miosis (pupillary constriction). Vascular: BP elevation not characterized in autonomic section. Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

#### Skin corrosion/irritation

Skin - rabbit





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - rabbit

Result: Moderate eye irritation - 24 h

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Human lymphocyte

Cytogenetic analysis

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

## Section 12 - Ecological Information

12.1 Toxicity

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) – 0.55 mg/l – 96.0 h

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 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 IMDG:

ENVIRONMENTALLY

HAZARDOUS SUBSTANCE

IATA:

Environmentally hazardous substance, solid, n.o.s. (Zinc di(acetate))

#### 14.3 Transport hazard

class(es)

ADR/RID: - 9

IMDG: - 9

IATA: - 9

#### 14.4 Packaging group

ADR/RID: - III

IMDG: - III

IATA: - III







WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

14.5 Environmental hazards

ADR/RID: - Yes

IMDG: -Marine pollutant: Yes

IATA: -Yes

14.6 Special precautions for user

no data available

## 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.

Acute Tox.

Acute toxicity

Aquatic Acute

Acute aquatic toxicity

Aquatic Chronic

Chronic aquatic

toxicity Eye Irrit.

Eye irritation

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

H400

Very toxic to aquatic life.

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

N

Dangerous for the environment

Xn

Harmful

R22

Harmful if

swallowed. R36

Irritating

to eyes.

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Disclaimer:

This material safety data sheet is provided as an information resource only.  
WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information





WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

**Issue Date: November, 2022**

**Revision Date: October, 2024**

**Revision No. : 03**