

# Material Safety Data Sheet



**ZINC CHLORIDE (DRY) PURIFIED**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

Product Code : 19920

Page 1 of 13

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

### 1.1. Product identifier

Trade name : ZINC CHLORIDE (DRY) PURIFIED  
Product code : 19920  
Identification of the product : ZINC CHLORIDE (DRY) PURIFIED  
CAS No : 7646- 85- 7  
EC Index-No. : 030-003-00-2  
EC No. : 231-592-0  
Synonyms : Zinc (II) chloride

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

#### Company identification

MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker  
Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
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 [CLP]

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 1, Sub- H314  
Category 1B  
Specific target organ toxicity — Single H335  
exposure, Category 3, Respiratory tract  
irritation  
Hazardous to the aquatic environment — H400  
Acute Hazard, Category 1  
Hazardous to the aquatic environment — H410  
Chronic Hazard, Category 1

Full text of H- and EUH-statements: see section 16

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Product Code : 19920

Page 2 of 13

## Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05      GHS07      GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation.  
H410 - Very toxic to aquatic life with long lasting effects.  
Precautionary statements (CLP)  
: P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.

## 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

### 3.1. Substances

Name : ZINC CHLORIDE (DRY) PURIFIED

CAS-No : 7646- 85- 7

### 3.2. Mixtures

Not applicable

## 4. First aid measures

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**Product Code : 19920**

Page 3 of 13

## 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Call a physician immediately.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.                                 |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.   |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : Causes severe skin burns and eye damage.  |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.   |
| Symptoms/effects after skin contact | : Burns.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.   |
| Symptoms/effects after ingestion    | : Swallowing a small quantity of this material will result in serious health hazard. Burns. |

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Carbon dioxide. Dry powder. Foam. Water spray |
| Unsuitable extinguishing media | : Do not use a heavy water stream.              |

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

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EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 4 of 13

Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3 Advice for firefighters

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing

## 6. Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up

: Mechanically recover the product. Minimise generation of dust. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Other information

: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

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EFFECTIVE DATE : 16/06/2025

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Page 5 of 13

Precautions for safe handling

: Do not breathe vapours. Avoid contact with skin and eyes. Use only outdoors or in a wellventilated area. Do not breathe dust, fume, gas, mist, spray, vapours. Wear personal protective equipment.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Storage conditions

: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage away from

: Direct sunlight. Air contact. Moisture.

## 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

Eye protection

: Chemical goggles or safety glasses

Hand protection

: Wear protective gloves

Skin protection

: Wear suitable protective clothing

Respiratory protection

: Wear appropriate mask.

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Page 6 of 13

Thermal hazards : No additional information available

## 8.2.3 Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Solid  
Appearance : deliquescent crystalline powder.  
Molecular mass : 136.29 g/mol  
Colour : White to off white  
Odour : Odourless  
Odour threshold : No data available  
pH : Between 4.6 and 6.0  
Relative evaporation rate : No data available  
Melting point : 293 °C  
Freezing point : Not applicable  
Boiling point : 732 °C  
Flash point : Not applicable  
Auto-ignition temperature : Not applicable  
Decomposition temperature : No data available  
Flammability (solid, gas) : Non flammable.  
Vapour pressure : 1.3 mbar at 428°C  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 2.91 g/cm<sup>3</sup>  
Solubility : Water: 851 g/l at 20°C - Soluble in water  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Viscosity, kinematic : Not applicable  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : Not applicable

### 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

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EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 7 of 13

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

## 10.5. Incompatible materials

Oxidizing agent.

## 10.6 Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## 11. Toxicological information

### 11.1. Information on toxicological effects

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.               |
| Acute toxicity (dermal)           | : Not classified                      |
| Acute toxicity (inhalation)       | : Not classified                      |
| Skin corrosion/irritation         | : Causes severe skin burns            |
| Additional information            | : Not classified                      |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage |
| Respiratory or skin sensitisation | : Not classified                      |
| Germ cell mutagenicity            | : Not classified                      |
| Carcinogenicity                   | : Not classified                      |
| Reproductive toxicity             | : Not classified                      |
| STOT-single exposure              | : May cause respiratory irritation.   |
| STOT-repeated exposure            | : Not classified                      |
| Aspiration hazard                 | : Not classified                      |

## 12. Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

### 12.2. Persistence and degradability

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Page 8 of 13

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Product/Packaging disposal recommendations | : Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as nonhazardous waste. |

## 14. Transport information

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

### 14.1. UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2331 |
| UN-No. (IMDG) | : UN 2331 |
| UN-No. (IATA) | : UN 2331 |
| UN-No. (ADN)  | : UN 2331 |
| UN-No. (RID)  | : UN 2331 |

### 14.2. UN proper shipping name

|                                      |  |
|--------------------------------------|--|
| Proper Shipping Name (ADR)           | : ZINC CHLORIDE, ANHYDROUS   |
| Proper Shipping Name (IMDG)          | : ZINC CHLORIDE, ANHYDROUS   |
| Proper Shipping Name (IATA)          | : Zinc chloride, anhydrous   |
| Proper Shipping Name (ADN)           | : ZINC CHLORIDE, ANHYDROUS   |
| Proper Shipping Name (RID)           | : ZINC CHLORIDE, ANHYDROUS   |
| Transport document description (ADR) | : UN 2331 ZINC CHLORIDE, ANHYDROUS, 8, III, (E), ENVIRONMENTALLY HAZARDOUS |

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EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 9 of 13

Transport document description(IMDG) : UN 2331 ZINC CHLORIDE, ANHYDROUS, 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 2331 Zinc chloride, anhydrous, 8, III, ENVIRONMENTALLY HAZARDOUS  
Transport document description (ADN) : UN 2331 ZINC CHLORIDE, ANHYDROUS, 8, III, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 2331 ZINC CHLORIDE, ANHYDROUS, 8, III, ENVIRONMENTALLY HAZARDOUS

## 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8

### IMDG

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8

### IATA

Transport hazard class(es) (IATA) : 8  
Danger labels (IATA) : 8

### ADN

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8

### RID

Transport hazard class(es) (RID) : 8  
Danger labels (RID) : 8

## 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : III

## 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : C2  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1

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REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 10 of 13

Packing instructions (ADR) : P002, IBC08, LP02, R001  
Mixed packing provisions (ADR) : MP10  
Portable tank and bulk container instructions (ADR) : T1  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Operation (ADR) : VC1, VC2, AP7  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code (ADR) : E  
EAC code : 2X

## Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
MFAG-No : 154

## Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y845  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 860  
PCA max net quantity (IATA) : 25kg  
CAO packing instructions (IATA) : 864  
CAO max net quantity (IATA) : 100kg  
ERG code (IATA) : 8L

## Inland waterway transport

Classification code (ADN) : C2  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

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REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 11 of 13

## Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : C2                      |
| Limited quantities (RID)                                  | : 5kg                     |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P002, IBC08, LP02, R001 |
| Mixed packing provisions (RID)                            | : MP10                    |
| Portable tank and bulk container instructions (RID)       | : T1                      |
| Portable tank and bulk container special provisions (RID) | : TP33                    |
| Tank codes for RID tanks (RID)                            | : SGAV                    |
| Transport category (RID)                                  | : 3                       |
| Colis express (express parcels) (RID)                     | : CE11                    |
| Hazard identification number (RID)                        | : 80                      |

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory information

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

#### 15.1.1 EU-Regulations

No REACH Annex XVII restrictions

ZINC CHLORIDE DRY is not on the REACH Candidate List

ZINC CHLORIDE DRY is not on the REACH Annex XIV List

ZINC CHLORIDE DRY is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

ZINC CHLORIDE DRY is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 207)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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# Material Safety Data Sheet



**ZINC CHLORIDE (DRY) PURIFIED**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 19920**

Page 12 of 13

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen – Ontwikkeling

**Denmark**

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

| Abbreviations and acronyms |   |
|----------------------------|---|
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                        | Acute Toxicity Estimate   |
| BCF                        | Bioconcentration factor   |
| BLV                        | Biological limit value  |
| BOD                        | Biochemical oxygen demand   |
| COD                        | Chemical oxygen demand  |
| COD                        | Chemical oxygen demand  |
| DMEL                       | Derived Minimal Effect level  |
| DNEL                       | Derived-No Effect Level   |
| EC-No.                     | European Community number   |
| EC50                       | Median effective concentration  |
| EN                         | European Standard   |
| IARC                       | International Agency for Research on Cancer   |
| IATA                       | International Air Transport Association   |
| IMDG                       | International Maritime Dangerous Goods  |
| LC50                       | Median lethal concentration   |
| LD50                       | Median lethal dose  |
| LOAEL                      | Lowest Observed Adverse Effect Level  |
| NOAEC                      | No-Observed Adverse Effect Concentration  |
| NOAEL                      | No-Observed Adverse Effect Level  |
| NOEC                       | No-Observed Effect Concentration  |
| OECD                       | Organisation for Economic Co-operation and Development  |
| OEL                        | Occupational Exposure Limit   |
| PBT                        | Persistent Bioaccumulative Toxic  |
| PNEC                       | Predicted No-Effect Concentration   |

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|   |  |
|---|--|
| RID                                       | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                                       | Safety Data Sheet  |
| STP                                       | Sewage treatment plant   |
| ThOD                                      | Theoretical oxygen demand (ThOD)   |
| TLM                                       | Median Tolerance Limit   |
| VOC                                       | Volatile Organic Compounds   |
| CAS-No.                                   | Chemical Abstract Service number   |
| N.O.S.                                    | Not Otherwise Specified  |
| vPvB                                      | Very Persistent and Very Bioaccumulative                                     |
| ED  | Endocrine disrupting properties  |
|   |  |
| <b>Full text of H- and EUH-statements</b> |  |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                                |
| Flam. Liq. 2                              | Flammable liquids, Category 2  |
| STOT SE 3                                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis       |
| H225                                      | Highly flammable liquid and vapour.  |
| H319                                      | Causes serious eye irritation.   |
| H336                                      | May cause drowsiness or dizziness.   |
| EUH066                                    | Repeated exposure may cause skin dryness or cracking.                        |

Safety Data Sheet (SDS), EU 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.

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