

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 06548

Issue date: 20-06-2022 Revision date: 20-06-2022 Supersedes version of: 04-10-2016 Version: 1.0

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

#### 1.1. Product identifier

Product form Substance

ZINC CHLORIDE DRY AR Trade name

: 030-003-00-2 FC Index-No. EC-No. 231-592-0 CAS-No. 7646-85-7 06548 Product code ZnCl2 Formula

Chemical structure

: Zinc (II) chloride Synonyms

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial. For professional use only.

: Laboratory chemicals Use of the substance/mixture

Manufacture of substances

### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai - INDIA

T +91 22 6663 6663 - F +91 22 6663 6699

info@lobachemie.com - www.lobachemie.com

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

### **SECTION 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-Category 1B H314 Specific target organ toxicity — Single exposure, Category 3, Respiratory H335

tract irritation

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400 Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H-statements: see section 16

# 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.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### 2.2. Label elements

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

Hazard pictograms (CLP)



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 clothing, eye protection, face protection, protective gloves. 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 doctor, a POISON CENTER.

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Substance type : Mono-constituent
Name : ZINC CHLORIDE DRY

CAS-No. : 7646-85-7 EC-No. : 231-592-0 EC Index-No. : 030-003-00-2

### 3.2. Mixtures

Not applicable

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

# 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.

Burns.

# 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

Symptoms/effects after eye contact : Serious damage to eyes.

20-06-2022 (Revision date) EN (English) 2/11

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

# **SECTION 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

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.

### **SECTION 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".

Emergency procedures : Stop release.

### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers.

Minimise generation of dust. 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.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe vapours. Avoid contact with skin and eyes. Use only outdoors or in a well-

ventilated 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.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# 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.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 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

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

# Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

### 8.2.2.2. Skin protection

### Hand protection:

Protective gloves

# 8.2.2.3. Respiratory protection

# Respiratory protection:

Wear appropriate mask

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

### **Environmental exposure controls:**

Avoid release to the environment.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

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

Physical state : Solid

Appearance : Crystalline powder. Hygroscopic.

Molecular mass : 136.28 g/mol
Colour : White.
Odour : Odourless.
Odour threshold : No data available

pH : 4.5 – 5.5 Aqueous solution, 100 g/L at 20°C

Relative evaporation rate (butylacetate=1) : No data available

293 °C Melting point Not applicable Freezing point : 732 °C Boiling point : Not applicable Flash point 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

Bulk density : 1400 – 1800 kg/m<sup>3</sup>

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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. Moisture. Air contact.

# 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

: Harmful if swallowed. Acute toxicity (oral) Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

Skin corrosion/irritation : Causes severe skin burns.

pH: 4.5-5.5 Aqueous solution, 100 g/L at 20°C

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: 4.5 - 5.5 Aqueous solution, 100 g/L at 20°C

Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified : Not classified Aspiration hazard

### **ZINC CHLORIDE DRY AR (7646-85-7)**

Not applicable Viscosity, kinematic

Potential adverse human health effects and

: Harmful if swallowed.

symptoms

# **SECTION 12: Ecological information**

### 12.1. Toxicity

: Very toxic to aquatic life with long lasting effects. Ecology - general Ecology - water Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

: Very toxic to aquatic life with long lasting effects.

Very toxic to aquatic life.

(chronic)

# 12.2. Persistence and degradability

# **ZINC CHLORIDE DRY AR (7646-85-7)**

Persistence and degradability May cause long-term adverse effects in the environment.

# 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

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

20-06-2022 (Revision date) EN (English) 6/11

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

# **SECTION 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

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

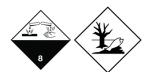
Transport document description (RID)

: UN 2331 ZINC CHLORIDE, ANHYDROUS, 8, III, ENVIRONMENTALLY HAZARDOUS

# 14.3. Transport hazard class(es)

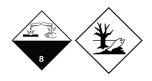
### ADR

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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 : E1 Excepted quantities (ADR)

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) Mixed packing provisions (ADR) MP10 Portable tank and bulk container instructions (ADR) : T1 Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAV : AT Vehicle for tank carriage Transport category (ADR) : 3

Special provisions for carriage - Bulk (ADR) VC1, VC2, AP7

Hazard identification number (Kemler No.) 80

Orange plates

80 2331

TP33

Tunnel restriction code (ADR) Ε EAC code 2X

#### Transport by sea

Tank special provisions (IMDG)

Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P002, LP02 : IBC08 IBC packing instructions (IMDG) : B3 IBC special provisions (IMDG) Tank instructions (IMDG) T1

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A

Segregation (IMDG) : SGG1, SGG7, SG36, SG49

Properties and observations (IMDG) : White, deliquescent crystals. Soluble in water. Dust causes burns to skin, eyes and mucous

membranes.

MFAG-No : 154

Air transport

PCA Excepted quantities (IATA) : E1 : Y845 PCA Limited quantities (IATA) 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 Special provisions (IATA) A803 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

Rail transport

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

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1

Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAV
Transport category (RID) : 3

Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7

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

# **SECTION 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 AR is not on the REACH Candidate List

ZINC CHLORIDE DRY AR is not on the REACH Annex XIV List

ZINC CHLORIDE DRY AR 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 AR 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)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous Incident Ordinance (12. BImSchV)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

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

# **SECTION 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 (BOD)	
COD	Chemical oxygen demand (COD)	
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	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms		
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	

Full text of H- and EUH-statements		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

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.