

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 07/04/2011 Revision date: 30/06/2025 Supersedes version of: 09/09/2022 Version: 1.3

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

### 1.1. Product identifier

Product form : Substance Trade name : Zinc, powder EPR

Chemical name : zinc powder— zinc dust (pyrophoric)

**IUPAC** name : zinc EC Index-No. : 030-001-00-1 EC-No. : 231-175-3 CAS-No. : 7440-66-6 REACH registration No : 01-2119467174-37 Product code : ZNMT-P0A

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

: Zn

#### Relevant identified uses

Main use category : Laboratory use

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

labbox labware s.l.

Migjorn, 1

Formula

P.O. Box Barcelona (SPAIN)

08338 Premia de Dalt, SPAIN

ES

T +34 937 07 79 70, F +34 937 909 532

info@labbox.com, www.labbox.com

## 1.4. Emergency telephone number

: +34 937 077 970 (For technical information Office Hours) In case of medical emergency **Emergency number** 

phone 112 or to your local emergency number.

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, H410

Category 1

Full text of H and EUH statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

### 2.3. Other hazards

No additional information available

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

## 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
Zinc, powder	CAS-No.: 7440-66-6 EC-No.: 231-175-3	≥ 99
	EC Index-No.: 030-001-00-1 REACH-no: 01-2119467174- 37	

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

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open.

Consult an eye specialist.

First-aid measures after ingestion : If the person is fully conscious, make him/her drink warm water (1/2 litre). Never give an

unconscious person anything to drink. Call a physician immediately.

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

No additional information available

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

Never give anything by mouth to an unconscious person.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Sand. Dry powder.

Unsuitable extinguishing media : Water.

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

Fire hazard : Combustible liquid. May form combustible dust concentrations in air.

## 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Combustible.

30/06/2025 (Revision date) EN (English) 2/10

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 6: Accidental release measures**

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

General measures : Avoid contact with skin and eyes. Avoid dust formation.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.

Methods for cleaning up : Large spills: scoop solid spill into closing containers. Collect spillage.

## 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Incompatible materials : Heat sources. Sources of ignition. Direct sunlight.

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container. Store in a closed container.

## 7.3. Specific end use(s)

Laboratory chemicals.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **DNEL and PNEC**

Zinc, powder EPR (7440-66-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0,83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,5 mg/m³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	20,6 μg/l
PNEC aqua (marine water)	6,1 µg/l

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Zinc, powder EPR (7440-66-6)	
PNEC (Sediment)	
PNEC sediment (freshwater)	117,8 mg/kg dwt
PNEC sediment (marine water)	56,5 mg/kg dwt
PNEC (Soil)	
PNEC soil	35,6 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 μg/l

## 8.2. Exposure controls

### Personal protection equipment

### Personal protective equipment:

EN 374.

Personal protective equipment symbol(s):





#### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

## Skin and body protection:

Antistatic clothing

### Hand protection:

protective gloves

## **Respiratory protection**

### Respiratory protection:

Wear appropriate mask

### **Environmental exposure controls**

## **Environmental exposure controls:**

Avoid release to the environment.

### Other information:

Wash hands with water as a precaution. Do not eat, drink or smoke when using this product. The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance in accordance with Article 17 or 18 of the REACH regulation.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : Grey. Molecular mass : 65,37 g/mol Odour : odourless. Odour threshold : Not available Melting point : 420 °C Freezing point : Not available Boiling point : 908 °C Flammability : Not available Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Auto-ignition temperature : 460 °C

Decomposition temperature : Not available
pH : Not available
pH solution : Not available
Viscosity, kinematic : > 70,423 mm²/s

Viscosity, dynamic : > 500 mPa·s Temp.: 'other:417.0°C' Parameter: 'dynamic viscosity (in mPa s)'

Solubility Insoluble. Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density 7,1 g/cm<sup>3</sup> : Not available Relative density Relative vapour density at 20 °C : Not applicable Particle size : Not available

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

No additional information available

## 10.3. Possibility of hazardous reactions

Reacts violently with water. Reacts violently with (some) acids.

## 10.4. Conditions to avoid

No additional information available

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Zinc, powder EPR (7440-66-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 inhalation rat (mg/l)	> 5,41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

 Skin corrosion/irritation
 : Not classified

 Serious eye damage/irritation
 : Not classified

 Respiratory or skin sensitisation
 : Not classified

 Germ cell mutagenicity
 : Not classified

 Carcinogenicity
 : Not classified

 Reproductive toxicity
 : Not classified

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Zinc, powder EPR (7440-66-6)

NOAEL (oral, rat, 90 days) 31,52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-

Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

Zinc, powder EPR (7440-66-6)

Viscosity, kinematic > 70,423 mm²/s

### 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Ve

(chronic)

: Very toxic to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

### Zinc, powder EPR (7440-66-6)

Persistence and degradability Rapidly degradable

### 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. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Must follow special treatment according to local regulation.

## **SECTION 14: Transport information**

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

## 14.1. UN number or ID number

UN-No. (ADR) : UN 3077

30/06/2025 (Revision date) EN (English) 6/10

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

 UN-No. (IMDG)
 : UN 3077

 UN-No. (IATA)
 : UN 3077

 UN-No. (ADN)
 : UN 3077

 UN-No. (RID)
 : UN 3077

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR) (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc,

powder), 9, III, (-)

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc,

powder), 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s. (Zinc, powder), 9, III
Transport document description (ADN) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
Transport document description (RID) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

### 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9

9

### **IMDG**

Transport hazard class(es) (IMDG) : 9

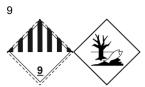
Danger labels (IMDG) : 9



## IATA

Transport hazard class(es) (IATA) : 9

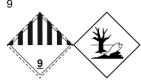
Danger labels (IATA)



### **ADN**

Transport hazard class(es) (ADN)

Danger labels (ADN)



## RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878



## 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
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F

Other information : No supplementary information available

## 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

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

Special packing provisions (ADR) : PP12, B3
Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V13
Special provisions for carriage - Bulk (ADR) : VC1, VC2
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3077

Tunnel restriction code (ADR) : ·

EAC code : 2Z

### Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

#### **Inland waterway transport**

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T\* B\*\*
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\* Only in the case of

transport in bulk.

### Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

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

Special packing provisions (RID) : PP12, B3
Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W13
Special provisions for carriage – Bulk (RID) : VC1, VC2
Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 90

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

## **EU-Regulations**

## **REACH Annex XVII (Restriction List)**

EU res	EU restriction list (REACH Annex XVII)	
Referen	ce code	Applicable on
40.		Zinc, powder EPR

### **REACH Annex XIV (Authorisation List)**

Zinc, powder EPR is not on the REACH Annex XIV List

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **REACH Candidate List (SVHC)**

Zinc, powder EPR is not on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

{0} 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.

## **POP Regulation (Persistent Organic Pollutants)**

{0} 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

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### **Dual-Use Regulation (428/2009)**

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### **Explosives Precursors Regulation (2019/1148)**

Not listed on the Explosives Precursors list (EU)

#### **Drug Precursors Regulation (273/2004)**

Not listed on the Drug Precursors list (EU)

### **National regulations**

### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).

### **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

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

: The substance is not listed

### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Full text of H- and EUH-statements:	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
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.

30/06/2025 (Revision date) EN (English) 10/10