

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 7/11/2016 Revision date: Version: 1.0 Supersedes:

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

Product identifier

Product form : Substance Substance name : Zinc Oxide EC no : 215-222-5 CAS No : 1314-13-2 Formula : ZnO

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial use

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

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Emergency telephone number

Emergency number : +90 532 313 0083

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Hazardous to the aquatic H400

environment — Acute

Hazard, Category 1

H410 Hazardous to the aquatic

environment — Chronic Hazard, Category 1

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects.

Label elements

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

Hazard pictograms (CLP)



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

P391 - Collect spillage

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
Zinc Oxide	(CAS No) 1314-13-2 (EC no) 215-222-5	> 99

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

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 : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic

fire;

of : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : 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.

6.1.2. For emergency responders

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

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 : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. 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 cool.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Protective goggles. Gloves. Dust formation: dust mask. Protective clothing.

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment









Environmental exposure controls

: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Dust.

Colour : White. yellowish.
Odour : Odourless.
Odour threshold : No data available

pH : 6.75

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 1975 °C Freezing point : Not applicable Boiling point No data available Flash point : Not applicable Auto-ignition temperature : Not applicable : No data available Decomposition temperature Flammability (solid, gas) : Not flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : Not applicable Specific gravity 5.56 g/cm³ Solubility : Negligible. Log Pow : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic No data available : No data available Explosive properties Oxidising properties : No data available

9.2. Other information

Bulk density : 300 - 700 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

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

: Not applicable

10.2. Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid 10.4.

None under recommended storage and handling conditions (see section 7).

Incompatible materials

No additional information available

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Not classified

Zinc Oxide (1314-13-2)		
LD50 oral rat	> 5000 mg/kg (male/female)	
LD50 dermal rat	> 2000 mg/kg (male/female)	
LC50 inhalation rat	> 5700 mg/m³ air (male/female)	

Skin corrosion/irritation : Not classified

pH: 6.75

Serious eye damage/irritation : Not classified

pH: 6.75

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. **Toxicity**

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

Zinc Oxide (1314-13-2)		
LC50 Fish	1793 mg/l	
EC50 Daphnia	2.6 mg/l	
EC50 72h Algae	136 µg/l	

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential 12.3.

No additional information available

12.4. **Mobility in soil**

No additional information available

Results of PBT and vPvB assessment 12.5.

No additional information available

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.

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3077	3077	3077	3077	3077
	14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)	Environmentally hazardous substance, solid, n.o.s. (Zinc Oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)
Transport document descr	iption			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide), 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide), 9, III, MARINE POLLUTANT/ENVIRONM ENTALLY HAZARDOUS	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Zinc Oxide), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide), 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide), 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard	class(es)			
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

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

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

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

: VC1, VC2

: CV13

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2 (ADR)

Portable tank and bulk container special

: TP33 provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT : 3 Transport category (ADR) Special provisions for carriage - Packages : V13 (ADR)

Special provisions for carriage - Bulk (ADR) Special provisions for carriage - Loading, unloading and handling (ADR)

Orange plates

Hazard identification number (Kemler No.) : 90

Tunnel restriction code (ADR) : E

: 2Z EAC code

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- Transport by sea

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

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

Packing instructions (IMDG) : P002, LP02
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

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

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW23

- 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

- 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 : T1, BK1, BK2

(RID)

Portable tank and bulk container special : TP33

provisions (RID)

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

Transport category (RID) : 3
Special provisions for carriage – Packages : W13

(RID)

Special provisions for carriage – Bulk (RID) : VC1, VC2
Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

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

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

Zinc Oxide is not on the REACH Candidate List

Zinc Oxide is not on the REACH Annex XIV List

15.1.2. **National regulations**

Germany

: Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 3; VwVwS Annex reference

ID No. 2187)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

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

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

giftige stoffen - Ontwikkeling

NIET-limitatieve lijst van voor de voortplanting

: The substance is not listed : The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

Denmark

: Emergency management guidelines for the storage of flammable liquids must be followed Classification remarks

Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and FLIH-statements:

I dil text of FF and Lori-statements.		
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

SDS EU (REACH Annex II)

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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