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

1.1. Product identifier

Product form : Substance
 Trade name/designation : ZINC
 Chemical name : Zinc
 EC-No. : 231-175-3
 CAS-No. : 7440-66-6
 REACH registration No : 01-2119467174-37
 Product group : Trade product

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 : Chemical products,
 Additive,
 Catalyst,
 Alloy,
 granules,
 Pellets,
 sheets,
 Article,
 Spraying,
 Welding,
 Powder,
 Coating,
 Manufacture of paints, varnishes and similar coatings, printing ink and mastics,
 Chemical plating of metals,
 dipping,
 Corrosion inhibitor,
 Lubricants,
 Laboratory chemicals,
 Reducing agent in chemical synthesis .

1.2.2. Uses advised against

No data available


1.3. Details of the supplier of the safety data sheet

Trafigura Ventures V.B.V.
 Evert van de Beekstraat 1-82
 The Base, Tower B - 5th Floor
 1118 CL Schiphol - The Netherlands
 T +31 20 504 1800
TrafiguraReach@trafigura.com

1.4. Emergency telephone number

Emergency number : +32 3 575 03 30
 This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)

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Country	Official advisory body	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

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

Not applicable.

2.3. Other hazards

Other hazards : Risk of dust explosion.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : ZINC
CAS-No. : 7440-66-6
EC-No. : 231-175-3

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc	(CAS-No.) 7440-66-6 (EC-No.) 231-175-3 (EC Index) 030-002-00-7	> 98,5	Aquatic Acute Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures


Additional advice : Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Wash skin with plenty of water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion : Rinse mouth. In case of doubt or persistent symptoms, consult always a physician.

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

Inhalation : as offered : This product has no known adverse effect on human health. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Skin contact : No adverse effects are expected.

Eyes contact : No adverse effects are expected.

Ingestion : No adverse effects are expected.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

Hazardous decomposition products in case of fire : Zinc oxide.

5.3. Advice for firefighters

Firefighting instructions : Use personal protective equipment as required. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Use personal protective equipment as required. Reference to other sections: 8 . Provide adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections


No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep good industrial hygiene. Provide adequate ventilation.

Hygiene measures : Keep good industrial hygiene.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Engineering measure(s) : Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Gloves

Eye protection : Not required for normal conditions of use


Body protection : Wear suitable protective clothing

Respiratory protection : Not required for normal conditions of use. Avoid dust formation. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Full face mask (EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: P (EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
 Appearance : Solid.
 Colour : No data available.
 Odour : No data available.
 Odour threshold : No data available
 pH : Not applicable
 Relative evaporation rate (butylacetate=1) : No data available
 Melting / freezing point : ~ 419 °C
 Freezing point : No data available
 Initial boiling point and boiling range : ~ 907 °C
 Flash point : Not applicable
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Flammability (solid, gas) : No data available
 Vapour pressure : No data available
 Vapour density : No data available
 Relative density : No data available
 Density : ~ 7,14 g/cm³ (20°C)
 Solubility : No data available
 Partition coefficient n-octanol/water : No data available
 Kinematic viscosity : No data available

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Dynamic viscosity : No data available
Explosive properties : No data available
Oxidising properties : Not applicable.
Explosive limits : Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acids. Oxidising agent .

10.6. Hazardous decomposition products

ZnOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Zinc (7440-66-6)	
LD50/oral/rat	630 mg/kg

Skin corrosion/irritation : Not classified
pH: Not applicable

Serious eye damage/irritation : Not classified
pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified


STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Zinc (7440-66-6)	
LC50 fish 1	2,16 - 3,05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0,139 - 0,908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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Zinc (7440-66-6)	
LC50 fish 2	0,211 - 0,269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

12.2. Persistence and degradability

ZINC (7440-66-6)	
Persistence and degradability	No data is available on the product itself.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contaminated materials in accordance with current regulations. Do not allow to enter into surface water or drains.
 European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				


14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

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- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 is not on the REACH Candidate List

ZINC is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) nwg, Non-hazardous to water (ID No. 7325)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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 giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed


NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

15.2. Chemical safety assessment

SECTION 16: Other information

Indication of changes:

1		Modified	
5		Modified	
16		Modified	

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Sources of key data used to compile the datasheet : European Chemicals Bureau.

Full text of H- and EUH-statements:

Aquatic Acute Not classified	Hazardous to the aquatic environment - Acute Hazard Not classified
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According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
 Classification according to Regulation (EC) No. 1272/2008 [CLP]
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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