

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**79501 Zinc, 20 mesh, ACS**

Revision date: 06.08.2019

Product code: 79501

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

79501 Zinc, 20 mesh, ACS

CAS No: 7440-66-6  
Index No: 030-001-00-1  
EC No: 231-175-3

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

Water analysis

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

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Pyrophoric solid: Pyr. Sol. 1

Substance and mixture which, in contact with water, emits flammable gas: Water-react. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Catches fire spontaneously if exposed to air.

In contact with water releases flammable gases which may ignite spontaneously.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Danger

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**Pictograms:**

**Hazard statements**

- H250 Catches fire spontaneously if exposed to air.  
 H260 In contact with water releases flammable gases which may ignite spontaneously.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P222 Do not allow contact with air.  
 P231+P232 Handle and store contents under inert gas. Protect from moisture.  
 P233 Keep container tightly closed.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P335+P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.  
 P223 Do not allow contact with water.  
 P391 Collect spillage.

**Additional advice on labelling**

REGULATION (EC) No 1272/2008

**2.3. Other hazards**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 3: Composition/information on ingredients**
**3.1. Substances**

Molecular weight: 65,40

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7440-66-6	zinc powder - zinc dust (pyrophoric)			100 %
	231-175-3	030-001-00-1		
	Pyr. Sol. 1, Water-react. 1, Aquatic Acute 1, Aquatic Chronic 1; H250 H260 H400 H410			

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

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Take off contaminated clothing and shoes immediately.  
 Show this safety data sheet to the doctor in attendance.

**After inhalation**

Move to fresh air.  
 If symptoms persist, call a physician.

**After contact with skin**

Wash off immediately with plenty of water for at least 15 minutes.

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Call a physician immediately.

#### **After contact with eyes**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### **After ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

No known effect.

#### **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**

Dry powder, Special powder against metal fire, Sand  
Fire-fighting class: D

#### **Unsuitable extinguishing media**

Water

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

Risk of dust explosion in fine crystalline powder form.  
Dust may form explosive mixture in air.  
Fire may liberate hazardous vapours.

### **5.3. Advice for firefighters**

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

#### **Additional information**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Risk of dust explosion in fine crystalline powder form.

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Sweep up and shovel. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

### **6.4. Reference to other sections**

13. Disposal considerations

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Use only in well-ventilated areas. Avoid contact with skin and eyes. Do not breathe vapours/dust.

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Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

#### Advice on protection against fire and explosion

Dust may form explosive mixture in air.

#### Further information on handling

Observe label precautions.

Avoid contact with skin, eyes and clothing.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from moisture.

##### Hints on joint storage

Never allow product to get in contact with water during storage.

##### Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

#### 7.3. Specific end use(s)

Reagent for analysis

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

None known.

#### 8.2. Exposure controls

##### Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and at the end of workday.

##### Eye/face protection

Safety glasses with side-shields

##### Hand protection

Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Use barrier skin cream. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

In case of full contact:

Glove material : Nitrile rubber

Layer thickness: > 0,11 mm

Break through time: 480 min

In case of contact through splashing:

Glove material : Nitrile rubber

Layer thickness: > 0,11 mm

Break through time: > 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

##### Skin protection

Flame retardant protective clothing Avoid contact with skin, eyes and clothing.

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#### Respiratory protection

Respirator must be worn if exposed to dust.  
Suitable mask with particle filter P3 (European Norm 143)

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Respirator must be worn if exposed to dust.

#### Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

### SECTION 9: Physical and chemical properties

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

Physical state:	solid, powder	
Colour:	grey, blue	
Odour:	odourless	
pH-Value (at 20 °C):		no data available

#### Changes in the physical state

Melting point:	419 °C
Initial boiling point and boiling range:	907 °C
Sublimation point:	no data available
Softening point:	no data available
Pour point:	no data available
:	no data available
Flash point:	no data available
Sustaining combustion:	No data available

#### Flammability

Solid:	no data available
Gas:	no data available

#### Explosive properties

no data available

Lower explosion limits:	no data available
Upper explosion limits:	no data available
Ignition temperature:	500 °C

#### Auto-ignition temperature

Solid:	no data available
Gas:	no data available

Decomposition temperature:	no data available
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#### Oxidizing properties

no data available

Vapour pressure:	no data available
Vapour pressure:	no data available
Density (at 20 °C):	7,14 g/cm <sup>3</sup>
Bulk density:	no data available
Water solubility: (at 20 °C)	insoluble

#### Solubility in other solvents

no data available

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Partition coefficient:	not applicable
Viscosity / dynamic:	not applicable
Viscosity / kinematic:	not applicable
Flow time:	not applicable
Vapour density:	not applicable
Evaporation rate:	not applicable
Solvent separation test:	not applicable
Solvent content:	no data available

#### **9.2. Other information**

Solid content:	not applicable
no data available	

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

#### **10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

#### **10.2. Chemical stability**

Stable under recommended storage conditions.

#### **10.3. Possibility of hazardous reactions**

Reacts with the following substances: Protect against water.

#### **10.4. Conditions to avoid**

Heat. Avoid moisture.  
Avoid dust formation.

#### **10.5. Incompatible materials**

Acids, Bases, Fluorine. Magnesium

#### **10.6. Hazardous decomposition products**

To avoid thermal decomposition, do not overheat.

#### **Further information**

Stable under recommended storage conditions.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Toxicokinetics, metabolism and distribution**

No toxicology information is available.

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
No data is available on the product itself.

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

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#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Specific effects in experiment on an animal**

No toxicology information is available.

#### **Additional information on tests**

None known.

#### **Practical experience**

#### **Observations relevant to classification**

None known.

#### **Other observations**

None known.

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12: Ecological information

### **12.1. Toxicity**

No information on ecology is available.

### **12.2. Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

### **12.3. Bioaccumulative potential**

No data is available on the product itself.

### **12.4. Mobility in soil**

no data available

### **12.5. Results of PBT and vPvB assessment**

no data available

### **12.6. Other adverse effects**

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

In accordance with local and national regulations.

#### **List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### **List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

#### **List of Wastes Code - contaminated packaging**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

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#### Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN1436  
**14.2. UN proper shipping name:** ZINC POWDER  
**14.3. Transport hazard class(es):** 4.3  
**14.4. Packing group:** III  
Hazard label: 4.3+4.2



Classification code: WS  
Limited quantity: 0  
Transport category: 3  
Hazard No: 423  
Tunnel restriction code: E

#### Other applicable information (land transport)

Excepted Quantities: E1

#### Inland waterways transport (ADN)

#### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

**14.1. UN number:** UN1436  
**14.2. UN proper shipping name:** ZINC POWDER  
**14.3. Transport hazard class(es):** 4.3  
**14.4. Packing group:** III  
Hazard label: 4.3+4.2



Special Provisions: 223  
Limited quantity: 0  
EmS: F-G, S-O  
Segregation group: powdered metals

#### Other applicable information (marine transport)

Excepted Quantities: E1

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN1436  
**14.2. UN proper shipping name:** ZINC POWDER  
**14.3. Transport hazard class(es):** 4.3  
**14.4. Packing group:** III  
Hazard label: 4.3+4.2



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Special Provisions:	A3
Limited quantity Passenger:	Forbidden
IATA-packing instructions - Passenger:	486
IATA-max. quantity - Passenger:	25 kg
IATA-packing instructions - Cargo:	491
IATA-max. quantity - Cargo:	100 kg

#### Other applicable information (air transport)

Excepted Quantities: E1  
Passenger-LQ: Y845  
Passenger-LQ: Forbidden

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: zinc powder - zinc dust (pyrophoric)

#### 14.6. Special precautions for user

no data available

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

Not relevant

#### Other applicable information

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):  
Entry 40: zinc powder - zinc dust (pyrophoric)

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Revision: 06.08.2019  
Safety datasheet sections which have been updated: 2, 3, 11, 15  
Revision: 14.07.2017  
Safety datasheet sections which have been updated: 1-16

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#### Relevant H and EUH statements (number and full text)

- |      |  |
|------|--|
| H250 | Catches fire spontaneously if exposed to air.                                  |
| H260 | In contact with water releases flammable gases which may ignite spontaneously. |
| H400 | Very toxic to aquatic life.  |
| H410 | Very toxic to aquatic life with long lasting effects.                          |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.