SAFETY DATA SHEET
according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1. Identification

Product identifier

- Product number: 108756
- Product name: Zinc coarse powder for analysis suitable for filling of reductors, particle size about 0.3-1.5 mm (14-50 mesh ASTM) EMSURE® Reag. Ph Eur
- CAS-No.: 7440-66-6

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

- Identified uses: Reagent for analysis

Details of the supplier of the safety data sheet

- Company: EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821, United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
- Emergency telephone: 800-424-9300 CHEMTREC (USA)
  +1-703-527-3887 CHEMTREC (International)
  24 Hours/day; 7 Days/week

SECTION 2. Hazards identification

GHS-Labeling

- Not a dangerous substance according to GHS.

Other hazards

- None known.

SECTION 3. Composition/information on ingredients

- Formula: Zn
- Zn (Hill)
- Molar mass: 65.39 g/mol

SECTION 4. First aid measures

Description of first-aid measures
Inhalation
After inhalation: fresh air.

Skin contact
After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact
After eye contact: rinse out with plenty of water.

Ingestion
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed
pain, Fever, Nausea, Vomiting, cardiovascular disorders, muscular symptoms

Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture
Not combustible.
Ambient fire may liberate hazardous vapors.

Advice for firefighters
Special protective equipment for fire-fighters
In the event of fire, wear self-contained breathing apparatus.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
SECTION 7. Handling and storage

Precautions for safe handling
Observe label precautions.

Conditions for safe storage, including any incompatibilities
Tightly closed. Dry.
Store at +5°C to +30°C (+41°F to +86°F).

SECTION 8. Exposure controls/personal protection

Exposure limit(s)
Contains no substances with occupational exposure limit values.

Engineering measures
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures
Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.

Eye/face protection
Safety glasses

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection
required when dusts are generated.
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. Physical and chemical properties

Physical state granules
Color silver
Odor odorless
Odor Threshold Not applicable
pH No information available.
Melting point 419 °C
## Boiling point/boiling range
1663 °F (906 °C) at 1,013 hPa

## Flash point
No information available.

## Evaporation rate
No information available.

## Flammability (solid, gas)
No information available.

## Lower explosion limit
No information available.

## Upper explosion limit
No information available.

## Vapor pressure
No information available.

## Relative vapor density
No information available.

## Density
7.13 g/cm³ at 68 °F (20 °C)

## Relative density
No information available.

## Water solubility
at 68 °F (20 °C) insoluble

## Partition coefficient: n-octanol/water
No information available.

## Autoignition temperature
No information available.

## Decomposition temperature
No information available.

## Viscosity, dynamic
No information available.

## Explosive properties
Not classified as explosive.

## Oxidizing properties
none

## Particle size
Particle size
0.3 - 8 mm

### SECTION 10. Stability and reactivity

#### Reactivity
See below

#### Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

#### Possibility of hazardous reactions
Exothermic reaction with:
SAFETY DATA SHEET
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<table>
<thead>
<tr>
<th>Product number</th>
<th>108756</th>
<th>Version 1.2</th>
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<td></td>
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</tbody>
</table>

alkali hydroxides, carbon disulfide, acids, alkalines
Chlorine, with
Moisture.
Risk of explosion with:
ammonium compounds, azides, chlorates, metal catalysts, Nitric acid, hydrazine and derivatives, Halogenated hydrocarbon, Hydrogen, nitrates, Peroxides, cadmium, chromium(VI) oxide, peroxide compounds, Nitro compounds, performic acid
Risk of ignition or formation of inflammable gases or vapors with:
Arsenic oxides, Sodium hydroxide
Tellurium, with
heat

Conditions to avoid
Exposure to moisture.

Incompatible materials
no information available

Hazardous decomposition products
no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure
Eye contact, Skin contact, Ingestion

Genotoxicity in vitro
Ames test
Salmonella typhimurium
Result: negative
(IUCLID)

Carcinogenicity
No indication of carcinogenic activity. (IUCLID)

Reproductive toxicity
No impairment of reproductive performance suspected. (IUCLID)

Teratogenicity
No indication of teratogenic properties. (IUCLID)

Specific target organ systemic toxicity - single exposure
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity
IARC
No ingredient of this product present at levels greater than or
equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Further information**
After absorption:
- Fever, muscular symptoms, pain, cardiovascular disorders, Nausea, Vomiting
- On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.
- Handle in accordance with good industrial hygiene and safety practice.

### SECTION 12. Ecological information

**Ecotoxicity**
No information available.

**Persistence and degradability**
No information available.

**Bioaccumulative potential**
No information available.

**Mobility in soil**
No information available.

### SECTION 13. Disposal considerations
The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### SECTION 14. Transport information

**Land transport (DOT)**
Not classified as dangerous in the meaning of transport regulations.

**Air transport (IATA)**
Not classified as dangerous in the meaning of transport regulations.

**Sea transport (IMDG)**
Not classified as dangerous in the meaning of transport regulations.

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**SECTION 15. Regulatory information**

**United States of America**

**SARA 313**
The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>7440-66-6</th>
<th>100%</th>
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<td>zinc; metallic, grains, coarse powder ≥ 0.3mm</td>
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**SARA 302**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Clean Water Act**
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

**DEA List I**
Not listed

**DEA List II**
Not listed

**US State Regulations**

**Massachusetts Right To Know**

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**Pennsylvania Right To Know**

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**New Jersey Right To Know**

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**California Prop 65 Components**
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
SECTION 16. Other information

Training advice
Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet
Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date 01/08/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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