

ZINC METAL (POWDER) (300 MESH)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ZINC METAL (Powder) (300 mesh)

Product Code: 700

CAS#: 7440-66-6f

Chemical Formula: Zn

Molecular Formula: 65.39 g/mol

Formula Weight: NAF

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms: NA

Formula: Zn

Molecular Weight: 65.39 g/mol

CAS-No.: 7440-66-6

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Short-term (acute) aquatic hazard, (Category 1) H400: Very toxic to aquatic life

Long-term (chronic) aquatic hazard, (Category 1) H410: Very toxic to aquatic life with long lasting effects.

Hazard Statements H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant

Other hazards This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. May form explosible dust-air mixture if dispersed.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact: rinse out with plenty of water. Remove contact lenses.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Serious Skin Contact: Not available

Serious Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

If swallowed: immediately make victim drink water (two glasses at most). Rinse mouth with water. Consult a physician.

Serious Ingestion: Not available

Most important symptoms and effects, both acute and delay No data available

Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture Zinc/zinc oxides Combustible. Risk of dust explosion.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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

Specific end use(s) A part from the uses no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Dark Grey, Fine, Metallic Powder.
Odour	: Not available
Taste	: Not available
Molecular Weight	: Not available
Colour	: Not available
pH	: Not available
Boiling Point	: Not available
Melting Point	: Not available



Critical Temperature	: Not available
Specific Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions

Exothermic reaction with: alkali hydroxides Fluorine carbon disulfide halogen-halogen compounds acids alkalines Chlorine with Moisture.

Risk of explosion with: ammonium compounds azides chlorates metal catalysts Nitric acid hydroxylamine hydrazine and derivatives Halogenated Hydrocarbon Hydrogen Nitrates Peroxides cadmium chromium(VI) oxide peroxi compounds Nitro compounds performic acid Oxidizing agents sulfur iodine with Water
Risk of ignition or formation of inflammable gases or vapors with: Arsenic oxides

Conditions to avoid no information available

Incompatible materials No data available

Hazardous decomposition products Other decomposition products - In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401) LC50

Inhalation - Rat - male and female - 4 h - > 5,41 mg/l - dust/mist (OECD Test Guideline 403)

Dermal: No data available

Skin corrosion/irritation Skin – Rabbit, **Result:** No skin irritation - 5 d

Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Zinc oxide

Serious eye damage/eye irritation

Eyes – Rabbit, **Result:** No eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitization Maximization Test - Guinea pig, **Result:** negative (OECD Test Guideline 406)

Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Zinc oxide

Germ cell mutagenicity Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium,

fMetabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Zinc sulphate

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Result: negative

Remarks: (in analogy to similar products)

(ECHA) The value is given in analogy to the following substances: zinc chloride

Test Type: Chromosome aberration test in vitro

Test system: Other cell types

Metabolic activation: with and without metabolic activation



Result: negative

Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: zinc chloride

Test Type: Micronucleus test

Species: Mouse

Cell type: Red blood cells (erythrocytes)

Application Route: Intraperitoneal

Result: negative

Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Zinc sulphate

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Carcinogenicity no data available

Reproductive toxicity no data available

Specific target organ toxicity - no data available

Aspiration hazard No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity no data available

Persistence and degradability no data available

Bio-accumulative potential no data available

Mobility in soil no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not data available

Other adverse effects no data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID:

IMDG:

IATA:

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID:

IMDG:

IATA:

Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION**References: Full text of H AND R-Statements**

Not Available

Other Special Considerations: Not available.

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