

Safety Data Sheet

Zinc Sulfate Monohydrate

Analytical chemical / laboratory reagent

SECTION 1: Identification of the substance and of the company

Product identifier	Zinc Sulfate Monohydrate
Chemical name	Zinc(II) sulfate monohydrate
CAS number	7446-19-7
EC number	616-096-8
Relevant identified uses	Laboratory reagent; analytical and technical applications
Uses advised against	Human/animal consumption; food, supplement, cosmetic, medical, diagnostic or therapeutic use
Supplier	Rexar, Genestetstraat 3, 2394 XK Hazerswoude-Rijndijk, Netherlands
Contact	info@rexar.nl www.rexar.nl

SECTION 2: Hazards identification

EU CLP classification: Acute Tox. 4 (oral); Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1.

Signal word: Danger.

Hazard statements: H302 Harmful if swallowed. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Precautions: Avoid ingestion and environmental release. Wear suitable gloves and eye/face protection. Wash thoroughly after handling.

SECTION 3: Composition / information on ingredients

Substance	Zinc sulfate monohydrate
CAS number	7446-19-7
PubChem CID	62639
Molecular formula	ZnSO ₄ ·H ₂ O
Molecular weight	179.45 g/mol
Purity	Lot-specific; refer to supplier documentation / COA

SECTION 4: First-aid measures

Inhalation: Move to fresh air and seek medical advice if symptoms persist.

Skin: Wash thoroughly with soap and water.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and obtain prompt medical attention.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

SECTION 5: Fire-fighting measures

Non-combustible. Use extinguishing media appropriate to the surrounding fire. Heating may generate sulfur oxides and zinc-containing decomposition products. Fire-fighters should use suitable protective equipment.

SECTION 6: Accidental release measures

Avoid dust formation and exposure. Wear suitable gloves and eye/face protection. Collect mechanically into a labelled container. Prevent entry into drains, surface water and soil.

SECTION 7: Handling and storage

Handle using good laboratory practice. Avoid breathing dust, ingestion and eye contact. Keep tightly closed and dry. Prevent environmental release and store away from incompatible materials.

SECTION 8: Exposure controls / personal protection

Use adequate ventilation. Wear chemical-resistant laboratory gloves, protective clothing and safety goggles or face protection. Where dust cannot otherwise be controlled, use suitable particulate respiratory protection.

SECTION 9: Physical and chemical properties

Appearance	White crystalline powder or crystals
Molecular formula	ZnSO ₄ ·H ₂ O
Molecular weight	179.45 g/mol
Water solubility	Soluble
Flammability	Non-combustible
Other properties	Confirm grade-specific physical data from supplier documentation

SECTION 10: Stability and reactivity

Stable under recommended storage conditions. Avoid excessive heat and incompatible materials. Thermal decomposition may generate sulfur oxides and zinc-containing products.

SECTION 11: Toxicological information

Harmful if swallowed and capable of causing serious eye damage under the EU CLP classification. Refer to the applicable supplier SDS for complete grade-specific toxicological information.

SECTION 12: Ecological information

Very toxic to aquatic life with long lasting effects. Prevent release to drains, watercourses and soil.

SECTION 13: Disposal considerations

Dispose of unused material and contaminated packaging through an authorised chemical-waste route in accordance with applicable requirements. Do not discharge to drains or the environment.

SECTION 14: Transport information

Verify dangerous-goods transport classification against the exact supplied grade, quantity and current carrier requirements. Environmental-hazard transport provisions may apply; consult the applicable supplier SDS before shipment.

SECTION 15: Regulatory information

Hydrous zinc sulfate, including CAS 7446-19-7, is covered by EU harmonised CLP entry 030-006-00-9 with Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1 and Aquatic Chronic 1 classifications.

SECTION 16: Other information

Revision date: 10 September 2026.

Identity reference: PubChem CID 62639; CAS 7446-19-7.

Hazard basis: EU harmonised CLP classification and current public supplier SDS information.

This SDS is a general laboratory safety reference and is not a certificate of analysis.