

Safety Data Sheet

Manganese Sulfate Monohydrate

Analytical chemical / laboratory reagent

SECTION 1: Identification of the substance and of the company

Product identifier	Manganese Sulfate Monohydrate
Chemical name	Manganese(II) sulfate monohydrate
CAS number	10034-96-5
EC number	600-072-9
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-aligned classification used for this reference SDS: STOT RE 2; Aquatic Chronic 2.

Signal word: Warning.

Hazard statements: H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

Precautions: Avoid breathing dust and environmental release. Use suitable gloves, protective clothing and eye protection. Confirm the exact supplier/grade SDS before handling.

SECTION 3: Composition / information on ingredients

Substance	Manganese(II) sulfate monohydrate
CAS number	10034-96-5
EC number	600-072-9
PubChem CID	177577
Molecular formula	MnSO4·H2O
Molecular weight	169.02 g/mol
Purity	Lot-specific; refer to supplier documentation / COA

SECTION 4: First-aid measures

Inhalation: Move to fresh air. Seek medical advice if symptoms occur or exposure was significant.

Skin: Wash thoroughly with soap and water.

Eyes: Rinse cautiously with water for several minutes; remove contact lenses if easy to do. Seek advice if irritation persists.

Ingestion: Rinse mouth and seek medical advice if unwell.

SECTION 5: Fire-fighting measures

Not normally combustible. Use extinguishing media appropriate to the surrounding fire. Heating may generate sulfur oxides and manganese-containing decomposition products. Fire-fighters should use suitable protective equipment.

SECTION 6: Accidental release measures

Avoid dust formation and inhalation. Wear suitable gloves and eye protection. Collect mechanically into a labelled container. Prevent release to drains, surface water and soil.

SECTION 7: Handling and storage

Handle using good laboratory practice. Avoid breathing dust and repeated exposure. Keep tightly closed and dry. Store away from incompatible materials and prevent environmental release.

SECTION 8: Exposure controls / personal protection

Use adequate ventilation. Wear suitable laboratory gloves, protective clothing and safety glasses/goggles. Where dust exposure cannot otherwise be controlled, use appropriate particulate respiratory protection. Observe applicable occupational limits for manganese compounds.

SECTION 9: Physical and chemical properties

Appearance	Pale pink / light red crystalline powder or crystals
Odour	Odourless
Molecular formula	MnSO ₄ ·H ₂ O
Molecular weight	169.02 g/mol
Water solubility	Soluble
pH	Approximately 3.7 (5% solution; reference value)
Flammability	Not normally flammable

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

Repeated or prolonged exposure to manganese compounds may affect organs, particularly through inhalation exposure. EU-aligned supplier/regulatory information commonly applies STOT RE 2 (H373). Consult the exact supplier SDS for complete toxicological data.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects (H411). Avoid 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 transport classification against the exact supplied grade, quantity and current carrier requirements.
Environmental-hazard transport requirements may apply; consult the supplier SDS before shipment.

SECTION 15: Regulatory information

Manganese sulfate monohydrate is identified under CAS 10034-96-5 and EC 600-072-9 in ECHA-linked substance information. Product-specific obligations depend on grade, quantity, jurisdiction and use.

SECTION 16: Other information

Revision date: 10 September 2026.

Identity reference: PubChem CID 177577; CAS 10034-96-5.

Safety basis: current public supplier and ECHA-linked classification information.

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