

MANGANESE(II) CHLORIDE (TETRA)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Manganese(II) chloride (Tetra)
Product Code: TMB 049
CAS#: 13446-34-9
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula: $MnCl_2 \cdot 4H_2O$
Formula Weight: 197.91

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Manganese(II) chloride

Toxicological Data on Ingredients: Acute Tox. 3; Eye Dam. 1; STOT RE 2; Aquatic Chronic 2; H301, H318, H373, H411

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Potential Acute Health Effects: Acute toxicity, Oral (Category 3), H301

Potential Chronic Health Effects: Long-term (chronic) aquatic hazard (Category 2), H411

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Serious eye damage (Category 1), H318

Specific target organ toxicity - repeated exposure (Category 2), Brain, H373

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Hydrogen chloride gas



Manganese/manganese oxides

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage conditions:

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. Moisture sensitive.

Storage class:

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

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.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Flakes
Odor	:	Not available
Color	:	light pinklight pink
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available



Specific Gravity	:	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

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available

Conditions of Instability: Not available.

Incompatibility with various substances: Zinc, Sodium/sodium oxides, Potassium, Strong acids, Hydrogen peroxide

Special Remarks on Corrosivity: Non-corrosive.

Special Remarks on Reactivity: Not available

Possibility of hazardous reactions: Zinc, Sodium/sodium oxides, Potassium, Strong acids, Hydrogen peroxide

Hazardous decomposition products: In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity:

LD50 Oral - Mouse - male - 1.330 mg/kg

LD50 Oral - Rat - female - 236 mg/kg

Inhalation: Not available

Dermal: Not available

Routes of Entry: Not available

Toxicity to Animals: Not available

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans: Not available

Potential Health : May cause damage to organs through prolonged or repeated exposure. - Brain

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 9,8 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 3,83 mg/l - 72 h

BOD and COD: Not available

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: Not available

Special Remarks on the Products of Biodegradation: Not 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: 3288

IMDG: 3288

IATA: 3288

UN proper shipping name

ADR/RID: TOXIC SOLID, INORGANIC, N.O.S. (manganese(II) chloride)

IMDG: TOXIC SOLID, INORGANIC, N.O.S. (manganese(II) chloride)

IATA: TOXIC SOLID, INORGANIC, N.O.S. (manganese(II) chloride)

Transport hazard class (es):

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

Packaging group:

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards:

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: no

SECTION 15: REGULATORY INFORMATION

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:

H301 Toxic if swallowed.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Other Special Considerations: Not available

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