

## 1. Identification

Product Name Manganese (II) Chloride – ECD Fluid Supplement

Part Number 105526

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

Recommended Use Laboratory chemicals

Uses Advised Against Food, drug, pesticide, or biocidal product use

### Details of the supplier of the safety data sheet

Company **Profound Medical Corp.**  
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 CANADA

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**Emergency telephone number** 1-888-226-8832 CANUTEC (North America)  
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 24 Hours/day; 7 Days/week

## 2. Hazard(s) Identification

Classification of the substance or mixture Classification according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200). This mixture does not meet the criteria for classification.

Labeling Elements Labelling according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) not required.

Other Hazards There is no additional information. Hazards not otherwise classified. May be harmful if swallowed (GHS category 5: acutely toxic - oral). Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

### 3. Composition and Information on Ingredients

**Mixtures**

Name of substance	CAS No.	Weight (%)
Water	7732-18-5	80
Manganese (II) Chloride	7773-01-05	20

### 4. First-Aid Measures

General Notes	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.
Most important symptoms and effects, both acute and delayed	Causes eye burns. Causes severe eye damage.
Indication of any immediate medical attention and special treatment needed	None

### 5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Hydrogen chloride gas, Manganese/manganese oxides.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further Information	No data available.

## 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Environmental precautions	Should not be released into the environment. Do not allow material to contaminate ground water system.
Methods and material for containment and cleaning up	Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).

## 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure Controls and Personal Protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

<b>Manganese (II) Chloride</b>	
<b>Regulator</b>	<b>Limit</b>
American Conference of Governmental Industrial Hygienists (ACGIH TLV)	TWA: 0.02mg/m <sup>3</sup> TWA: 0.1mg/m <sup>3</sup>
Occupational Safety and Health Administration (OSHA PEL)	(Vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup>
National Institute for Occupational Safety and Health (NIOSH IDLH)	IDLH: 500 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Mexico OEL	TWA: 0.2 mg/m <sup>3</sup>
Appropriate engineering controls	Use only under a chemical fume hood. Ensure that eyewash stations are close to the workstation location

**Personal Protective Equipment**

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

**Appearance**

Physical State	Liquid
Color	Light red
Odor	No data available
Odor Threshold	No data available

**Other Safety Parameters**

pH Value	~ 4
Melting point/ Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not determined
Evaporation Rate	Not determined
Flammability (solid, gas)	Not relevant for fluid
Vapor Pressure	Not determined
Density	No data available
Vapor Density	Not determined
Relative density	No data available

**Partition Coefficient**

- n-octanol/water (log KOW)	No data available
Auto-ignition temperature	Not determined
Viscosity	Not determined
Explosive properties	None

Oxidizing properties	None
Hazardous Decomposition Products	Hydrogen chloride gas, Manganese/manganese oxides
Hazardous Reactions	None under normal processing

**10. Stability and Reactivity**

Reactivity	No data available
Chemical Stability	Stable under normal conditions
Conditions to Avoid	Incompatible products
Incompatible Materials	Zinc, potassium, strong acids, sodium/sodium oxides, peroxides
Hazardous Decomposition Products	Hydrogen chloride gas, manganese/manganese oxides
Hazardous Reactions	None under normal processing

**11. Toxicological Information**

**Acute Toxicity**

Inhalation	No data available
Dermal	No data available
Oral	No data available

**Delayed and immediate effects from short and long-term exposure**

Irritation	No data available	
Sensitization	No data available	
Carcinogenicity	ACGIH	Not listed
	OSHA	Not listed
	IARC	Not listed
	Mexico OEL	Not listed
	NTP	Not listed
Mutagenic Effects	No data available	
Reproductive Effects	No data available	
Developmental Effects	No data available	
Specific target organ toxicity – single exposure	No data available	

Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Symptoms/effects, both acute and delayed	No data available
Other Adverse effects	The toxicological properties have not been fully investigated.

**12. Ecological Information**

Ecotoxicity	Harmful to aquatic life with long lasting effects. Do not allow material to contaminate ground water.
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility	No data available
Results of PBT and vPvB assessment	No data available

**13. Disposal Considerations**

Waste Disposal Methods    Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**14. Transport Information**

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**15. Regulatory Information**

This product has been classified in accordance OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

**16. Other Information, including date of preparation or last revision**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Prepared by Profound Medical Inc.

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Creation Date 18 Nov 2021

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Revision Date 18 Nov 2021

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Print Date 18 Nov 2021