

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Manganese (II) bromide tetrahydrate  
**CAS #:** 10031-20-6  
**FORMULA:** MnBr<sub>2</sub>·4H<sub>2</sub>O  
**SYNONYM:** Manganese dibromide hydrate

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	10036-20-6	100	0.2mg/m <sup>3</sup> (as Mn)	5mg/m <sup>3</sup> (as Mn - ceiling limit)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** May be mildly irritating to skin, eyes and the respiratory tract. Manganese bromide exposure may cause central nervous system effects and skin rashes.

**PRIMARY ROUTES OF EXPOSURE:** Contact with skin and eyes. Inhalation of dust.

**EYE CONTACT:** May be a mild irritant to the eyes.

**SKIN CONTACT:** May cause slight irritation of the skin.

**INHALATION:** : Dust may cause irritation to the respiratory tract; symptoms may include coughing and shortness of breath.

**INGESTION:** May cause nausea, vomiting and abdominal pain and produce central nervous system effects.

**CHRONIC HEALTH EFFECTS:** Repeated or prolonged exposure to bromides by any route may cause skin rashes (bromaderma) and central nervous system depression, including ataxia, psychoses, memory loss, irritability, and headache.

**ACUTE HEALTH EFFECTS:** Symptoms of bromide ingestion may include skin rash, blurred vision, drowsiness, irritability, dizziness mania, hallucinations, and coma.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** none

**EXPLOSION LIMITS:** none

**EXTINGUISHING MEDIUM:** None. Material is non flammable

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** none

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container away from moisture.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** pink xtl.

**MOLECULAR WEIGHT:** 214.76

**MELTING POINT (DEG. C.):** none

**BOILING POINT:** no data

**VAPOR PRESSURE:** not applicable

**SPECIFIC GRAVITY:** no data

**SOLUBILITY IN WATER:** 296.7g/100ccc

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** hygroscopic

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** contact with moisture

**INCOMPATIBILITY:** active metals and chlorine  
**DECOMPOSITION PRODUCTS:** water and manganese bromide

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**SECTION 11 Toxicological Information**

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**RTECS DATA:** No information available in the RTECS files  
**MUTAGENIC EFFECTS:** no data  
**TETRATOGENIC EFFECTS:** no data  
**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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**SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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**SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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**SECTION 14 Transportation Information**

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Non-hazardous

Non-hazardous

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**SECTION 15 Regulatory Information**

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**TSCA:** Not listed in the TSCA inventory  
**SARA (TITLE 313):** Title compound: See Category Code N450 for reporting.

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**SECTION 16 Other Information**

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**DATE PREPARED:** 10/05