

PRMI

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** 2-IMINOTHIOLANE HYDROCHLORIDE  
**PRODUCT NUMBER:** M100  
**CAS#:** 4781-83-3  
**SYNONYM:** Trauts Reagent

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	4781-83-3	100	Not Determined	Not Determined

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Dust may cause irritation to the respiratory tract, skin and eyes.

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

**EYE CONTACT:** Causes irritation of the eyes.

**SKIN CONTACT:** May cause irritation.

**INHALATION:** May cause irritation to nose, throat and respiratory tract.

**INGESTION:** No Data

**ACUTE HEALTH EFFECTS:** No Data

**CHRONIC HEALTH EFFECTS:** No Data

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water (lukewarm if possible) . Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get medical attention if redness or irritation persist.

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

**INHALATION:** Remove 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:** No specific data available. Seek Medical advice. Rinse out mouth if victim is conscious.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** Not applicable

**AUTOIGNITION TEMPERATURE:** Not applicable.

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Dry chemical powder.

**SPECIAL FIREFIGHTING PROCEDURES:** No special fire-fighting procedures required. Use normal conditions which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots and gloves.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** CO,CO2,sulfur oxides, nitrogen oxides

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None known

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Wear appropriate respiratory and protective equipment to avoid exposure with material, sweep up avoiding raising dust and place in a well-marked container for disposal.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** KEEP REGRIGERATED Store in a tightly sealed container. Keep in a dry area.

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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 goggle when handling material.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** Mechanical or local exhaust

**RESPIRATOR:** Where adequate ventilation is not available a dust respirator should be worn.

**ADDITIONAL PROTECTION:** Protection to avoid contact with skin, eyes, clothing.

Safety shower, eyewash in area. Use in a controlled environment. Do not eat, drink or smoke in area.

Avoid contact with skin, eyes. Do not breathe dust. May cause irritation to nose, throat, upper respiratory tract. Do not eat, drink or smoke in area.

## SECTION 9

## Physical and Chemical Properties

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**COLOR AND FORM:** White solid  
**MOLECULAR WEIGHT:** 137.63  
**MELTING POINT (DEG. C.):** 193-200  
**BOILING POINT:** No Data  
**VAPOR PRESSURE:** Not applicable  
**VAPOR DENSITY (AIR = 1):** Not applicable  
**% VOLATILE BY VOLUME:** Non volatile  
**SPECIFIC GRAVITY:** No Data  
**SOLUBILITY:** Partially soluble in hot or cold water.

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## SECTION 10 Stability and Reactivity

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**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Sources of ignition  
**INCOMPATIBILITY:** Oxidizing agents  
**DECOMPOSITION PRODUCTS:** CO,CO<sub>2</sub>,sulfur oxides, nitrogen oxides

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## SECTION 11 Toxicological Information

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**RTECS DATA:** No Data  
**CARCINOGENIC EFFECTS:** No Data  
**MUTAGENIC EFFECTS:** No Data  
**TETRATOGENIC EFFECTS:** No Data

For Research and Development Use Only.  
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 material                      Non-regulated material under DOT, IATA

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**SECTION 15      Regulatory Information**

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**TSCA:** Not listed

**SARA 302/304/311/312:** No products were found

**HCS:** Not regulated

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**SECTION 16      Other Information**

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**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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MSDS Specialist