

# SAFETY DATA SHEET

**Date Printed:** 05/13/2024 **Date Revised:** 01/15/2022

### **SECTION 1. IDENTIFICATION**

Product Identifier: (2N) 99% Thallium(I) Fluoride

**Product Code:** TL1-F-02

**CAS Number:** 7789-27-7

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number:

+1 800-424-9300

### **SECTION 2. HAZARDS IDENTIFICATION**

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 2

Acute Inhalation Toxicity - Dusts and Mists Category 2

Specific target organ toxicity - (repeated exposure) Category 2

**Label Elements** 





Signal Word

Danger

**Hazard Statements** 

Fatal if swallowed

Fatal if inhaled

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements** 

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

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

Disposa

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Thallium(I) fluoride CAS-No 7789-27-7

### **SECTION 4. FIRST AID MEASURES**

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

Inhalation Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Call a physician immediately. Clean mouth with water.

Most important symptoms and effects

No information available.

Notes to Physician Treat symptomatically

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products** 

Gaseous hydrogen fluoride (HF)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health: 4 Flammability: 0 Instability: 0

Physical hazards: N/A

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### **SECTION 7. HANDLING AND STORAGE**

Handling Do not breathe dust. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.

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

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Measures Ensure adequate ventilation, especially in confined areas.

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

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Powder Solid

Appearance White

Odor No information available

Odor Threshold No information available

pH No information available

Melting Point/Range 322 °C / 611.6 °F

Boiling Point/Range 655 °C / 1211 °F

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility No information available

Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** 

Decomposition Temperature No information available

Viscosity Not applicable Molecular Formula F TI Molecular Weight 223.37

### **SECTION 10. STABILITY AND REACTIVITY**

Reactive Hazard None known, based on information available

Stability heat sensitive. Moisture sensitive.

Conditions to Avoid Excess heat. Incompatible products. Exposure to moisture.

Incompatible Materials Acids, Strong oxidizing agents

Hazardous Decomposition ProductsGaseous hydrogen fluoride (HF)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity** 

**Product Information** 

Component Information

Toxicologically Synergistic

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity Not Listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The

product contains following substances which are hazardous for the environment.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

#### **SECTION 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.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

**UN-No UN1707** 

Proper Shipping Name THALLIUM COMPOUNDS, N.O.S.

Proper technical name Thallium(I) fluoride

Hazard Class 6.1

Packing Group II

**TDG** 

**UN-No UN1707** 

Proper Shipping Name THALLIUM COMPOUND, N.O.S.

Hazard Class 6.1

Packing Group II

IATA

**UN-No UN1707** 

Proper Shipping Name THALLIUM COMPOUND, N.O.S.

Hazard Class 6.1

Packing Group II

IMDG/IMO

**UN-No UN1707** 

Proper Shipping Name THALLIUM COMPOUND, N.O.S.

Hazard Class 6.1

Packing Group II

#### **SECTION 15. REGULATORY INFORMATION**

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

**CERCLA** Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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 in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.