

# SAFETY DATA SHEET

Date Printed: 11/10/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Thallium(I) Fluoride

Product Code: TL1-F-05

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 Indestion 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 Disposal 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.