

Material Safety Data Sheet Potassium Fluorotitanate

Section 1: Chemical Product and Company Identification

Product Name : Potassium Fluorotitanate
Chemical Formula : K_2TiF_6
Company Identification : Tradeasia International Pte Ltd
Email : contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Potassium Fluorotitanate	16916-27-0	100

Section 3: Hazards Identification

GHS Classification: Acute toxicity, Oral (Category 4), H302. Serious eye damage/eye irritation (Category 1), H318. Skin sensitisation (Category 1), H317

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Flash Points: Not applicable.

Special Hazards Arising from Substance or Mixture: Hydrogen fluoride, Potassium oxides, Titanium/titanium oxides.

Explosion Hazards in Presence of Various Substances: Not applicable.

Fire Fighting Media and Instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Collect spilled material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high-efficiency particulate filter vacuum.

Section 7: Handling and Storage

Handling Procedures: Use methods to minimize dust.

Storage Procedures: Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Store in a cool, dry place. Store in a well-ventilated area. Protect from physical damage. Keep separated from incompatible substances. Store with acids.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Eyes / Face: Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Protective Clothing: Wear appropriate chemical resistant clothing

Glove Recommendations: Wear appropriate chemical resistant gloves.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Physical state and appearance	: Solid. Powder
Odor	: None.
Taste	: Not available.
Molecular Weight	: 270.32 g/mole
Color	: White.
pH	: 4.0 – 5.0 (at 20°C)
Boiling Point	: Not available.
Melting Point	: 780°C (1436°F)
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Bulk Density	: 1.10 – 1.20 g/L
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water.
Water Solubility	: 12.7 g/L (at 20°C)

Section 10: Stability and Reactivity Data

Stability: The product is stable at normal temperatures and pressure.

Instability Temperature: Not available.

Conditions of Instability: Avoid generating dust.

Incompatibility with various substances: Strong acids: May liberate hydrogen fluoride.

Decomposition Products: Hydrogen fluoride, oxides of potassium, titanium

Thermal Decomposition Products: Acids: Hydrogen fluoride Thermal decomposition products: fluorinated compounds, potassium oxide.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Acute toxicity: LD50 Oral - Rat - 324 mg/kg (Dipotassium hexafluorotitanate).

Skin corrosion / irritation: Skin – Rabbit (Dipotassium hexafluorotitanate) Result: Mild skin irritation.

Serious eye damage / eye irritation: Eyes – Rabbit (Dipotassium hexafluorotitanate). Result: Severe eye irritation.

Target Organs: Immune system (sensitizer)

Component Carcinogenicity: ACGIH: A4 – Not Classifiable as a Human Carcinogen (related to Fluorides)

Medical Conditions Aggravated by Exposure: Central nervous system disorders, bone, joint or tooth disorders, eye disorders, kidney disorders, respiratory disorders, skin disorders and allergies

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Bioaccumulative Potential: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Disposal in compliance with governmental regulation (EC 1975L0442-20/11/2003).

Section 14: Transport Information

DOT Classification: No Classification assigned.

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

NFPA Ratings:

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.