MATERIAL SAFETY DATA SHEET

POTASSIUM TITANIUM FLUORIDE (K2TiF6)

Manufacturer:
Triveni Chemicals
135 Pancharatna Char Rasta
G I D C Vapi.396195 Gujarat India
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1) Identity of Materials
Product Name: Potassium Titanium Fluoride
Chemical Designation : K2TiF6
Trade Name: Potassium Fluotitanate
Formula: K2TiF6
Label : Toxic
CAS No. : 16919-27-0
UN No. : 3288
Class : 6.1
Regulated Identification Codes/Label : 6.1/Toxic **Shipping name –**
Hazchem Code: NA
Hazardous waste identification No. : NA

1. Potassium Titanium Fluoride – 98.5% 16919-27-0

2)Physical and Chemical Properties / Specification

Physical State(Gas,Liquid,Solid) : Solid

Boiling Point in Deg. C : Decomposes > 600

Vapour Pressure : 1 mm Hg@1517oC

Appearance: White Crystalline Powder

Melting/Freezing Point in Deg.C : NA

Evaporation Rate at 30 Deg. C : NA

Odour: Odourless

Vapour Density(air) : NA

Solubility in water at 30 Deg. C : 13 gm/l at 20oC

Others(Corrosivity,etc) : Toxic

Specific Gravity (Water =1) : 3.01@20oC

PH (20oC) : 4

3)Fire and Explosive hazards data

Explosion/Flammability : N.A

Flash Point : N.A

LEL% : Not Pertinent

Auto Ignition Temp Deg. C: Not Pertinent

UEL% : Not Pertinent

TDG Flammability %(Classification) : Not Listed

4)Reactive Hazards

Stability to Impact (Hazardous combustion products) : Emits toxic fumes of Fluorin
Static Discharge (Hazardous decomposition product) : During melting operations at elevated temperatures,various fluoride compound willl be liberated possibly Hydrogen fluoride.
Reactivity: NA
Hazardous Polymerization May / May Not Occur (Conditions to Avoid) : NA
Incompatibility (Materials to Avoid) : Strong Oxcidising agent.

5)Health Hazards Data

Routes of Entry: Inhalation,Skin contact,Eye contact
Effects of Exposure / Symptoms :
Inhalation : Respiratory irritation,possible nose bleeding or vomiting,Chronic exposures aggravates Bronchitis Asthma ,increase bone density
Skin: Irritates skin
LD50 (in rat) orally or percutaneous absorption : NA
LC50 (in rat) mg/l for 4HRs. : NA
PEL PPM mg/cu.m NA
STEL PPM NA
TLV of ACGIH PPM mg/cu.m NA
Odour Threshold ppm mg/cu.m NA

Emergency Treatment:
Inhalation : Remove the victim to fresh air area and rince nose and mouth with water.If needed ,give aritificial respiration

Ingestion : Perform gastric lavage with lime water or 1% Calcium Chloride solution
Skin : Flush with plenty of water for atleast 15 Mins. while removing contaminated clothings
Eyes : Flush with water atleast for 15 mins. occasionally lifting upper and lower lids continue irritating with normal saline until ready to transport to hospital

6)Hazard Specification

NEPA Hazard signal
Health
Flammability
Stability
Special
Not Listed Inhalation Acute Not Flammable Stable Refer (4)

7)Known Hazards

Combustible Liquid:	NA
Water reactive material:	NA
Irritant:	YES
Flammable Material:	Not Flammable
Oxidiser:	NA
Sensitizer:	NO
Pyrophoric Material:	NA
Organic Peroxide:	NA
Carcinogen:	YES
Explosive Material:	NO
Corrosive Material:	YES
Mutagen:	YES
Unstable Material:	Stable
Compressed Gas: NO	Others (Specify) : Refer (5)

8)Safe Usage Data

Ventilation General :	Local Exhaust
Protective Equipment:	Required
Protective clothing:	eye wash,safety shower
Eyes(Specify) :	Safety Goggles
Respiratory(Specify) :	Air line breathing apparatus
Gloves(Specify) :	PVC
Clothing(Specify) :	PVC Pant ,Shirt and Hood
Others(Specify) :	Protective clothing ,eye wash,safety shower,Nose/Dust Mask.
Precautions:	Avoid contact with skin

Handling & Storage Others(Specify) : Store in cool ,dry and ventilated area,in plastic,rubber which should be well closed.MS Drums with LDP inner liner.

9)Emergency Response Data
Fire: Not Flammable
Fire extinguishers media: NA

Special Procudures: Keep the containers cool by spraying water if exposed to heat or fla
Unusual Hazards: Emits toxic fumes of Fluorine
Exposure: (Inhalation, skin and eye contact,Ingestion) Refer (5)
First Aid Measures: Refer (5)
Spills Sweep and collect without making dust.Wash the area with water. Steps to be taken for
Waste disposal methods Seal all waste in paper tight plastic bags for eventual disposal
.Dilute with large quantities of water ,neutralize with lime and again dilute with water.(Follow
Federal or local regulations)

10)Additional Information
Avoid contact with acids,acid fumes,moisture.Dissolves in water to form weak solution of
HudroFluoric acid.