

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Triveni Chemicals
135 Pancharatna Char Rasta G I D C
Vapi. 396195 Gujarat India
Tel. 91 260 2400022 / 3258683 Fax. 2400045
E.Mail: info@trivenichechemical.com

Product Name: POTASSIUM FLUOBORATE , Potasium Tetrafluoroborate
Potassium Boro Fluoride

Use: Flux for soldering and brazing, electrochemical processes, an electrolyte for metal plating.

UN Number: 3288

Proper Shipping Name: TOXIC SOLID, INORGANIC, (POTASSIUMFLUOROBORATE)

Dangerous Goods Class: 6.1

Packing Group: III

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Potassium Fluoborate	>98%	14075-53-7

3. HAZARD IDENTIFICATION

Hazard Category: Toxic, Irritant

ACUTE HEALTH EFFECTS

Eye: Will cause severe irritation to the eyes, with effects including: tearing, pain, and stinging. Depending upon duration of exposure, eye damage may occur.

4. FIRST AID MEASURES

Swallowed: If swallowed, DO NOT induce vomiting. Seek urgent medical assistance. Give large quantities of milk or water. Give at least 30 mL of milk of magnesia or aluminium hydroxide gel in equal amount of water to react with and reduce the fluoride present. If these are not available, the whites of 2 to 3 eggs may be used.

First Aid Facilities: Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically. Symptoms of fluoride overexposure may include salivation, nausea, vomiting, abdominal pain, fever, laboured breathing.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam, water spray or water fog. Bund the area to stop runoff. Minimise the use of water.

SPECIAL FIRE FIGHTING PROCEDURES: Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION:

Keep unnecessary people away; Isolate hazard area and deny entry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Fluorides (as F) (which can be formed)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless crystalline powder with no odour
Melting Point:	530°C approx. (decomposes).
Vapour Pressure:	Low at 50°C.
Specific Gravity:	2.5
Solubility:	Slightly soluble in water (4 g/L at 20°C, 60 g/L at 100°C)
Bulk Density:	1100 kg/m ³ approx.
pH	4-7 (saturated solution)
Formula:	KBF ₄
Molecular Weight:	125.9

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use. May decompose on exposure to moist air or water.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity (rat): 50-200 mg/kg (Solids Packing Group III toxicity range & Hazardous Substances Toxic Range)

Acute Intraperitoneal Toxicity (rat) : 240 mg/kg (RTECS)

Acute Intraperitoneal Toxicity (mouse) : 590 mg/kg (RTECS)

Acute Intraperitoneal Toxicity (rabbit) : 380 mg/kg (RTECS)

12. ECOLOGICAL INFORMATION

Toxic to animals. May harm micro-organisms in treatment plants. This substance may cause long term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

UN Number: 3288

Proper Shipping Name: TOXIC SOLID, INORGANIC, (POTASSIUM FLUOROBORATE)

Dangerous Goods Class: 6.1

Packing Group:

III

15. REGULATORY INFORMATION

HAZARD CATEGORY: TOXIC, IRRITANT

Scheduled due to Boric Acid >1% & Fluorides <3%