

SAFETY DATA SHEET

1. Identification of the preparation and of the company

Catalogue No. : P 12425
Product Name : POTASSIUM FLUORIDE

Manufacturer/supplier identification
Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. Composition/Information on Ingredients

CAS-No : 7789-23-3 Ec-Index No. : 009-005-00-2
Molar Mass : 58.10 EC-No. : 232-151-5
Molecular formula : FK

3. Hazards Index : Toxic by inhalation, in contact with skin and if swallowed.
4. First Aid Measures :
After inhalation : Fresh air. If necessary, apply mouth- to-mouth resuscitation
or mechanical ventilation.
After skin contact : Wash off with plenty of water. Dab with polyethylene glycol
400. Immediately remove contaminated clothing.
After eye contact : Rinse out with plenty of water with the eyelid held wide open.
Summon eye specialist.
After swallowing : Make victim drink plenty of water induce vomiting.
Immediately summon doctor.
5. Fire-fighting measures : Suitable extinguishing media : In adaption to materials stored in the
immediate neighbourhood.
Special risks : Non-combustible. Development of hazardous combustion gases
or vapours possible in the event of fire.
The following may develop in event of fire : fluorine, hydrogen fluoride.
6. Accidental release : Person - related precautionary measures : Avoid generation of dusts.
Measures Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal.
Clean up affected area.
Additional notes : Render harmless: Treat with a mixture of lime in Sodium
Carbonate solution (precipitation as calcium fluoride).
7. Handling and Storage : Handling - No further requirement.
Storage - Tightly closed. Dry. In a well-ventilated place. At +15° C to +25° C.
Accessible only for authorized persons.
8. Exposure controls/ : MAK (max. workplace conc.) Fluorides (as Fluorine) : 2.5 mg/m³
Personal protection Respiratory protection : Required when dusts are generated.

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Eye Protection : Required

Hand Protection : Required

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance.

9. Physical and chemical properties :

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at gm/l H ₂ O (20° C)	:	Alkaline
Melting temperature	:	Near 855° C
Boiling temperature	:	1500° C
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	2.49 gm/cm ³
Bulk density	:	Near 400 Kg/m ³
Solubility in Water (20° C)	:	020 gm/l.
Ethanol (20° C)	:	Insoluble

10. Stability and reactivity :

Conditions to be avoided	:	No information available
Substances to be avoided	:	Acids:
Formation of	:	Hydrogen fluoride.
Hazardous decomposition products	:	No information available
Further information	:	Protective from moisture.

11. Toxicological Information :

Acute toxicity	:	No special data
Further toxicological information	:	
After contact with substance	:	Burns of : eyes, skin, mucous membranes
After eye contact	:	Risk of corneal clouding.
After swallowing	:	Tissue damage.
After absorption	:	Spasms unconsciousness, cardiac dysrhythmia, respiratory arrest, shock.
After long-term exposure to the chemical	:	Damage of : bone marrow.

Further data : The following applied to soluble inorganic fluorides in general : may cause irritations to burns in contact with eyes, skin, mucous membranes. Systemic effect drop in blood calcium level, agitation, spasms, cardiovascular disorders, CNS disorders.

12. Ecological Information :

Ecotoxic effects	:	Biological effects : Toxic for aquatic organisms. Protozoa : EC ₀ : <101 mg/l.; fish LC ₅₀ : >2.3 mg/l.; microorganisms LC ₅₀ : > 10 mg/l.; cold blooded animals LC ₅₀ : > 2 mg/l.
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Further ecologic data : The following applies to inorganic fluorides in general :
biological effects : fish: L.idus LC₅₀ : 660 mg/l.; bacteria : Ps. putida toxic as
from 231mg/l.; algae : Sc. quadricauda toxic as from 249 mg/l.; protozoa :
E.sulcatum toxic as from 101 mg/l.; U.parduczi toxic as from 71 mg/l.
(all values as NaF). Hazard from drinking water.

13. Disposal Method : There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in charge/approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information : GGVS/GGVE class : 6.1 Number and letter : 63c
Transport over land ADR/RID class : 6.1 Number and letter : 63c
ADR/RID & GGVS/GGVE : Name of material : POTASSIUM FLUORIDE

Sea Transport IMDG : IMDG class : 6.1 UN No. : 1812 Packing group : III
Ems : 6.1 - 04 MFAG : 750
Correct Technical Name : POTASSIUM FLUORIDE

Air Transport ICAO-TI & IATA-DGR : ICAO/IATA class : 6.1 UN No. : 1812
Packaging group : III
Correct Technical Name : POTASSIUM FLUORIDE

15. Regulatory Information :
Labeling according to EC Directives

Symbol : T Toxic

R-phrases : 23/24/25 Toxic inhalation, in contact with skin and if
swallowed.

S-phrases : 26-45 In case of contact with eyes, rinse immediately with
plenty of water and seek medical advice. In case of
accident or if you feel unwell, seek medical advice
immediately (show the label where possible).

EC.No. : 232-151-5 EC label

Water pollution class : 1 (slightly polluting substance)

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16. Other Information :

Reason for alteration

Change in labeling. General update.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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