1976 **Potassium Fluoride**

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:
Potassium Fluoride

Synonym:

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) Nº 1907/2006, the annual tonnage does not requiere a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.
C/Garraf 2
Polígono Pla de la Bruguera
E-08211 Castellar del Vallès
(Barcelona) Spain
Tel. (+34) 937 489 400
e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)
Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Acute Tox. 3
Acute Tox. 3
Acute Tox. 3

Hazard Pictograms

Signal word
Danger

Hazard statements
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

T Toxic R23/24/25

For the full text of the R-phrases mentioned in this section, see section 16.

3. Component Composition/Information

Name: Potassium Fluoride
Formula: KF M.= 58,10 CAS [7789-23-3]
EC number (EINECS): 232-151-5
EC index number: 009-005-00-2

4. First aid

4.1 General indications:
Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:
Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

4.3 Contact with the skin:
Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:
Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:
Drink large amounts of water. Induce vomiting. Seek immediate medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:
As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:
No specific data.

5.3 Special risks:
Incombustible. In the event of fire, toxic fumes may form:

5.4 Protective equipment:
Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:
Do not inhale the dust.

6.2 Precautions for care of the environment:
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:
Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Treat with a mixture of lime in sodium carbonate solution (a precipitate of calcium fluoride is formed).

7. Handling and storage

7.1 Handling:
No special indications.

7.2 Storage:
Well sealed containers.In well ventilated premises.Room temperature.Restricted access, only authorized to technicians.

8. Staff exposure/protection controls

8.1 Technical protective measures:
Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control:
VLA-ED: 2,5 mg/m3

8.3 Respiratory protection:
If dust forms, use suitable respiratory protection.

8.4 Hand protection:
Use suitable gloves neopren PVC nitrile latex

8.5 Eye protection:
Use suitable goggles.

8.6 Individual hygiene measures:
Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid
Colour: White
Granulometry: N/A
Odour: Odourless.
pH:
N/A
Melting point/freezing point: 858 °C
Initial boiling point and boiling range: 1.500 °C
Flash point:
N/A
Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits:
N/A
Vapour pressure: N/A
Vapour density: N/A
Relative density:
N/A
Solubility: 920 g/l in water20 °C
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: N/A
Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:
The product is chemically stable under standar ambient conditions (room temperature).

10.2 Matter which should be avoided:
Water. Acids. (Formation of

10.3 Hazardous decomposition products:
No specific data.

10.4 Complementary information:
No specific data.

11. Toxicological information

11.1 Acute toxicity:
LD L0 oral guinea pig : 250 mg/kg
LD L0 oral gpg : 250 mg/kg
LD50 oral rat : 245 mg/kg
LD50 ipr mus : 40 mg/kg

11.2 Dangerous effects for health:
Upon contact with the skin: burns Irritations to the skin and mucosae. Through contact with the eyes: burns sight disorders If swallowed: Burns in the oesophagus and stomach. Systemic effects: decrease of the blood calcium level anxiety spasms cardiovascular disorders effects on the central nervous system Due to absorption: spasms loss of consciousness arrhythmia respiratory paralysis shock After a period of latency: Damaging to the bone marrow.

12. Environmental information

12.1 Toxicity:
12.1.1 - EC50 test (mg/l):
Protozoa: EC0 101 mg/l
Classification: Very toxic
Bacteria 10 mg/l
Classification: Highly toxic
Cold-blooded animals > 2 mg/l
Classification:
Highly toxic
Fish (Leuciscus Idus) (F-) 660 mg/l
Classification:
Highly toxic
Bacteria (Ps. putida) (F-) 231 mg/l
Classification: Highly toxic
Algae (Sc. cuadricauda) (F-) 249 mg/l
Classification: Highly toxic
Protozoa (E. sulcatum) (F-) 101 mg/l
Classification: Highly toxic
12.1.2. - Receptor medium: Risk for the water environment
Medium Risk for the land environment
Medium 12.1.3. - Observations:
The ecotoxicity is due to the ion F-.

12.2 Persistence and Degradability :
12.2.1 - Test:
12.2.2. - Biotic degradation classification:
BOD5/COD
Biodegradability
12.2.3. - Abiotic degradation depending on pH:
12.2.4. - Observations:

12.3 Bioaccumulative potential:
12.3.1. - Test:
12.3.2. - Bioaccumulation:
Risk
12.3.3. - Observations:

12.4 Mobility in soil :
Data not available.

12.5 Assessment PBT and MPMB :
Data not available.

12.6 Other possible effects on the environment:
Do not allow it to enter soils or water channels.

13. Considerations regarding elimination

13.1 Substance or preparation:
In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.
In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.
2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
.

13.2 Contaminated containers:
Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.
European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
.

14. Information concerning transport

Overland (ADR):
Technical name: POTASSIUM FLUORIDE, SOLID
UN 1812 Class: 6.1 Packaging group: III (E)
By sea (IMDG):
Technical name: POTASSIUM FLUORIDE, SOLID
UN 1812 Class: 6.1 Packaging group: III
By air (ICAI-IATA):
Technical name: Potassium fluoride, solid
UN 1812 Class: 6.1 Packaging group: III
Packaging instructions: CAO 677 PAX 670

15. Regulatory information

The substance is subject to Council Regulation (EC) No 1334/2000 of 22 June 2000 setting up a Community regime for the control of exports of dual-use items and technology.

16. Other information

Other precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311 Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).
P330 Rinse mouth.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):	**R23/24/25** Toxic by inhalation, in contact with skin and if swallowed.
S-phrase(s):	**S45** In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible). **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Review number and date: 4 15.09.2011
Date published: 15.09.2011
In respect of the previous review, changes have been made to the following sections: 15
The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.