# Scientific Laboratory Supplies - Safety Data Sheet

**CHE2962** 

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 16 September 2024

# Section 1. Identification

1.1 Product Identifier CHE2962

Product Name POTASSIUM FLUORIDE ANHYDROUS pure 250g.

CAS Number 7789-23-3

REACH Registration No 01-2119555273-40-XXXX

Molecular Formula KF =58.10

# 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### **1.3 Supplier** Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

### **1.4 Emergency Telephone** (08:00-17:00) 0115 9821111

(24hr) 112 (Have this document to hand)

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# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Acute toxicity, category 3 (oral)

H301: Toxic if swallowed.

Acute toxicity, category 3 (dermal)

H311: Toxic in contact with skin.

Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes serious eye damage.

**Precautionary Statements** 

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do and continue rinsing.

# **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Potassium Fluoride	7789-23-3	232-151-5	01-2119555273-40-XXXX	>99%	Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), Eye Dam. 1

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin If calcium gluconate gel is available immediately rub into all affected areas and massage until pain goes. If not

wash with soap and water for 30 minutes. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. If there is difficulty in breathing give oxygen if available. If breathing stops or shows

signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION.

If conscious give plenty of water to drink. Keep warm and at rest. Do not induce vomiting. OBTAIN MEDICAL Ingestion

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Water spray. Unsuitable Media Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. Only re-enter area with full protective clothing and breathing apparatus.

## 6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Cover area of spill with calcium hydroxide then wash to drain with

copious amounts of water.

Minor Spillage Cover area of spill with calcium hydroxide then wash to drain with copious amounts of water.

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#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Keep well protected from ingress of water and well separated from acids

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Potassium Fluoride	7789-23-3	>99%	-	-	2.5 ppm -	

IOELV: Indicative Occupational Exposure Limit Value. Exposure data source(s)

### 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits.

Hand Protection Use PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance White crystalline, deliquescent powder. Odourless.

8 @ 20°C pΗ 1505°C **Boiling Point** Melting Point 846°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No.

Oxidising Properties

Vapour Pressure 1mmHg @ 885°C

Relative Density 2.4810 Water Solubility 96%

### 9.2 Other information

Odour

No data available.

# Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid

Avoid ingress of water and contact with acids.

**10.5** Incompatable Materials Acids.

10.6 Hazardous Decomposition May give off toxic and acidic fumes in contact with acids or if heated to decomposition.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Toxic when absorbed through skin. The solid and solutions are irritating to the skin.

LD50 Skin >2000mg/kg Rat

Ingestion Ingestion may cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.

LD50 Oral 148.5mg/kg Rat

Inhalation Inhalation of the dust can result in symptoms similar to those due to ingestion.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity No information is available but unlikely to be a carcinogen.

Mutagenicity No information is available.

Reproductive Effects None identified.

## Section 12. Ecological

**12.1** Toxicity High concentrations are toxic to aquatic life. LC50, Rainbow trout 5.9-7.5mg/l (as F) 10 day exposure. Plant

toxicity; Brown discolouring and shedding of leaves at 5ppb (as F), sensitive at 0.1ppb. Will persist in the form of

insoluble fluorides.

LC50 Algal 43mg/l Algae (48 hours)

LC50 Crustacea Not available

LC50 Fish 108ppm Rainbow trout (96 hours)

**12.2** Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

## **Section 13. Disposal Considerations**

### 13.1 Waste treatment methods

Disposal Methods Transfer to a large container and carefully add soda ash and calcium hydroxide at intervals. Decant liquid after 24

hours and neutralise hydrochloric acid, wash to drain with lots of water. The remaining sludge should be removed

by a licensed contractor.

# **Section 14. Transport Information**

**14.1 UN Number** 1812

14.2 Proper Shipping Name Potassium fluoride

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code E

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

14.6 Special precautions for

**14.7 Transport in bulk** Not transported in bulk.



# Section 15. Regulatory Information

# $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 3 (oral); Acute toxicity, category 3 (dermal); Acute toxicity, category 3 (inhalation); Serious

eye damage/irritation, category 1

No special precautions required.

Signal word Danger

Hazard Pictograms





Hazard Statements H331, H311, H301, H318

Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes serious eye damage.

Precautionary Statements P260, P271, P264, P270, P301+P312, P330, P305+P351+P338

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do and continue rinsing.

#### 15.2 Chemical safety assessment

Assessment not required.

# **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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