

	SAFETY DATA SHEET						
	according to Regulation (EC) No 1907/2006 (REACH) as amended						
		Potassium fl	uoride dihydra	te			
	ion date	05th November 2019					
Revis	ion date	04th February 2022	Version	2.0			
		of the substance/mixture a		_			
1.1.	Product identifier		Potassium fluorio	le dihydrate			
	Substance / mixture		substance				
	Chemical name		potassium fluoride dihydrate				
	CAS number		7789-23-3				
	Index number		009-005-00-2				
	EC (EINECS) number		232-151-5				
	Registration number		01-2119555273-40-xxxx				
1.2.	Relevant identified uses of the substance or mixture and uses advised against						
	Substance's intended use						
	Chemical production,	analytical chemistry, laborato	ry synthesis, industrial a	pplications.			
	Substance uses adv	-					
	-	ot be used in ways other then		n 1.			
1.3.	Details of the suppl	ier of the safety data shee	t				
	Supplier						
	Name or trade i	name	Ing. Petr Švec -	PENTA s.r.o.			
	Address		Radiová 1122/1,	Praha 10, 102 00			
			Czech Republic				
	Identification nu	umber (CRN)	02096013				
	VAT Reg No		CZ02096013				
	Phone		+420 226 060 6	81			
	E-mail		info@pentachem	icals.eu			
	Web address		www.pentachem	icals.eu			
	Competent person	esponsible for the safety o	lata sheet				
	Name	-	Ing. Petr Švec -	PENTA s.r.o.			
	E-mail		info@pentachem	icals.eu			
1.4.	Emergency telepho	ne number					
	European emergency	number: 112					

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Acute Tox. 3, H301+H311+H331

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse effects on human health and the environment** Toxic if swallowed, in contact with skin or if inhaled.

### 2.2. Label elements

Hazard pictogram



Danger



#### SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Potassium fluoride dihydrate Creation date 05th November 2019 Revision date 04th February 2022 Version 2.0 **Hazard statements** H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. **Precautionary statements** P261 Avoid breathing dust. P301+P310 IF SWALLOWED: Immediately call a doctor. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

### Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 009-005-00-2 CAS: 7789-23-3 EC: 232-151-5 Registration number: 01-2119555273-40- xxxx	substance main component potassium fluoride dihydrate	>99	Acute Tox. 3, H301, H311, H331	

Full text of all classifications and hazard statements is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.



#### SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Potassium fluoride dihydrate Creation date 05th November 2019 04th February 2022 Revision date Version 2.0

#### If swallowed

INDUCE VOMITING! Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

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

If inhaled Not expected. If on skin not available If in eyes Not expected.

#### If swallowed

Irritation, nausea.

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

#### **SECTION 5: Firefighting measures**

#### 5.1. **Extinguishing media**

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

#### 6.2. **Environmental precautions** Prevent contamination of the soil and entering surface or ground water.

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

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

#### 6.4. **Reference to other sections**

See the Section 7, 8 and 13.



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

### Potassium fluoride dihydrate

Creation date	05th November 2019		
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### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

# 7.2. Conditions for safe storage, including any incompatibilities Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed. 7.3. Specific end use(s)

not available

#### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

#### **Respiratory protection**

Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

information on basic physical and chemical prope	lies
Physical state	solid
Colour	white
Odour	without fragrance
Melting point/freezing point	41 °C
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	data not available
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	2,454 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available



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Ora Skin Bas Ser Bas Bas Ger Car	Toxic if swallowed, in contact with skin or if inhaled. potassium fluoride dihydrate							
Skin Bas Ser Bas Res Bas Ger Car	oute of exposure	Parameter	Value	Ex	kposure time	Species	Sex	
Bas Ser Bas Res Bas Ger Car		LD50	245 mg/kg			Rat		
Ser Bas Res Bas Ger Car	in corrosion/irrit							
Bas Res Bas Ger Car		ta the classification	n criteria are no	ot met.				
Res Bas Ger Car	Serious eye damage/irritation							
Bas Ger Car	Based on available data the classification criteria are not met.							
Ger Car	Respiratory or skin sensitisation							
Car	Based on available data the classification criteria are not met.							
	Germ cell mutagenicity							
Das	<b>Carcinogenicity</b> Based on available data the classification criteria are not met.							
Dor	Reproductive toxicity							
•	Based on available data the classification criteria are not met.							
	Toxicity for specific target organ - single exposure							
	Based on available data the classification criteria are not met.							
	sed on available da	Toxicity for specific target organ - repeated exposure						
Asp		ita the classification						
-	xicity for specific			4				
1.2. Info	xicity for specific sed on available da piration hazard	ita the classification	n criteria are no	ot met.				
The Dele	xicity for specific sed on available da piration hazard	ata the classification	n criteria are no	ot met.				



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Potassium fluoride dihydrate

Creation date	05th November 2019			
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#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### Acute toxicity

potassium fluoride dihydrate

Parameter	Value	Exposure time	Species	Environment
LC <sup>50</sup>	>2.3 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

#### 12.2. Persistence and degradability

#### not available

- **12.3. Bioaccumulative potential** Not available.
- 12.4. Mobility in soil
- Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

### Not available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

- 14.1. UN number or ID number UN 1812
- **14.2. UN proper shipping name** POTASSIUM FLUORIDE, SOLID
- **14.3.** Transport hazard class(es) 6.1 Toxic substances

#### 14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

# not relevant

- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant



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	Potassium	fluoride dihydra	te		
Creation date Revision date	05th November 2019 04th February 2022	Version	2.0		
Additional in	formation				
Hazard id	lentification No.	60			
UN numb	UN number				
Classifica	tion code	Т5			
Safety sig	jns	6.1			
		6			
Air transport	- ICAO/IATA				
	g instructions passenger	670			
	ckaging instructions	677			
Marine trans	-				
EmS (em	ergency plan)	F-A, S-A			

#### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
Guidelines for safe handling	used in the safety data sheet
P261	Avoid breathing dust.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Other important information	n about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

# Safety data sheet

#### SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Potassium fluoride dihydrate Creation date 05th November 2019 Revision date 04th February 2022 Version 2.0 EC Identification code for each substance listed in EINECS EINECS European Inventory of Existing Commercial Chemical Substances FmS Emergency plan FU European Union EuPCS European Product Categorisation System International Air Transport Association IATA IBC International Code For The Construction And Equipment of Ships Carrying **Dangerous** Chemicals ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods IMO International Maritime Organization INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry LC 50 Lethal concentration of a substance in which it can be expected death of 50% of the population LD 50 Lethal dose of a substance in which it can be expected death of 50% of the population loa Kow Octanol-water partition coefficient OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic ppm Parts per million REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Agreement on the transport of dangerous goods by rail UN Four-figure identification number of the substance or article taken from the UN Model Regulations UVCB Substances of unknown or variable composition, complex reaction products or biological materials VOC Volatile organic compounds Very Persistent and very Bioaccumulative vPvB

Acute Tox. Acute toxicity

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 05 November 2019. Changes were made in sections 2, 13, 15 and 16. **More information** 

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.