



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 31-Mar-2022 Revision Number 9.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Potassium Fluoride	
Product Code	167-03761,165-03762,169-03765	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964	
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029	
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only	

# Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Acute aquatic toxicity Chronic aquatic toxicity

Category 3 Category 2 Category 2

Pictograms



Hazard statements

- H301 Toxic if swallowed
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

#### **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- **Precautionary statements-(Response)** 
  - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
  - Rinse mouth
  - · Collect spillage

### Precautionary statements-(Storage)

Store locked up

### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

CAS RN 7789-23-3

Others Other hazards	Not ava	ailable		
Sec	tion 3: COMP	<b>OSITION/INFOR</b>	MATION ON	INGREDIENTS
Single Substance or Mix	<b>xture</b> Substa	nce		
Formula	KF			
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.
Potassium fluoride	99.0	58.10	(1)-322	公表
Note on ISHL No.:	* in the	table means annound	ed chemical subs	tances.

Not applicable Impurities and/or Additives:

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### Unsuitable extinguishing media No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special extinguishing method

### No information available

### Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

#### No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Avoids contact with acids. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Storage

Safe storage conditions	
Storage conditions	

Safe packaging material Incompatible substances

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Polyethylene Strong acids

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Potassium fluoride	N/A	N/A	TWA: 2.5 mg/m <sup>3</sup> F
7789-23-3			-

#### Personal protective equipment

Respiratory protectionDust maskHand protectionProtection glovesEye protectionprotective eyeglasses or chemical safety gogglesSkin and body protectionLong-sleeved work clothes

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	white
Appearance	crystalline powder - powder
Odor	no data available
Melting point/freezing point	860 °C
Boiling point, initial boiling point and boiling range	1505 °C
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available

Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available water : Very soluble. Ethanol : practically insoluble,or insoluble . no data available no data available

no data available 2.481 no data available no data available

# Section 10: STABILITY AND REACTIVITY

#### Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight, Moisture
 Incompatible materials

 Strong acids
 Hazardous decomposition products

 Halides
 Halides

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium fluoride	245 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Potassium fluoride	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Potassium fluoride	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Potassium fluoride	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Potassium fluoride	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Potassium fluoride	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Potassium fluoride		Group 3		
7789-23-3				
Reproductive toxicity				
Chemical Name		Reproducti	ve toxicity source	information
Potassium fluoride	I	Based on the NITE GF	IS classification res	sults.
STOT-single exposure				
Chemical Name		STOT -single exposure- source information		
Potassium fluoride		Based on the NITE GHS classification results.		
STOT-repeated exposure				
Chemical Name STOT -repeated exposure- source informa		rce information		
Potassium fluoride		Based on the NITE GHS classification results.		
Aspiration hazard				
Chemical Name		Aspiration Hazard source information		nformation
Potassium fluoride		Based on the NITE GHS classification results.		

# Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium fluoride	N/A	LC50:Ctenopharyngodon idella	N/A
		9.3 mg/L 96 h	

#### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Potassium fluoride	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID	
UN number	UN1812
Proper shipping name:	Potassium fluoride, solid
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Marine pollutant	Yes
IMDG	
UN number	UN1812
Proper shipping name:	Potassium fluoride, solid
UN classfication	6.1
Subsidiary hazard class	
Packing group	III

Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Yes No information available				
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	UN1812 Potassium fluoride, solid 6.1 III Yes				
Section 15: REGULATORY INFORMATION					
International Inventories					
EINECS/ELINCS	Listed				
TSCA	Listed				
Japanese regulations					
Fire Service Act	Not applicable				
Poisonous and Deleterious Substances Control Law	Not applicable				
	tHarmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,				
industrial Galety and realin Ac	Para.1, Enforcement Order Art.18)				
	Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.487				
Regulations for the carriage and storage of dangerous goods in ship	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)				
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)				
Pollutant Release and Transfer	Class 1				
Register Law					
(~2023.3.31) Class 1 - No.	374				
Pollutant Release and Transfer	Class 1				
Register Law					
<u>(2023/4/1~)</u>	074				
<u>Class 1 - No.</u> Water Pollution Control Act	<u>374</u> Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating				
Water Pollution Control Act	Wastewater Standards Art.1)				
Export Trade Control Order	Appendix 1 Export licensed items				
Air Pollution Control Law	Hazardous Air Pollutants				
Soil Contamination Control	Designated Hazardous Substances				
Law					

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Potassium fluoride 7789-23-3 ( 99.0 )	-	Applicable	Applicable

# Section 16: OTHER INFORMATION

Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)
sources for data etc.	http://www.safe.nite.go.jp/japan/db.html
	IATA dangerous Goods Regulations
	RTECS:Registry of Toxic Effects of Chemical Substances
	Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

End of Safety Data Sheet