

Date of issue: 2018/01/23 Date of revision: 2021/11/02

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Potassium fluoride SDS No. : 6354E-3 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp 2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Acute toxicity (Oral): Category 3 **ENVIRONMENT HAZARDS** Hazardous to the aquatic environment (Acute): Category 2 Hazardous to the aquatic environment (Long-term): Category 2 Label elements Signal word: Danger HAZARD STATEMENT Toxic if swallowed Toxic to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention Avoid release to the environment.

Wash contaminated parts thoroughly after handling. Do not eat, drink or smoke when using this product. Response

Collect spillage. IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. IF SWALLOWED: Rinse mouth. Disposal Dispose of contents/container in accordance with local/national regulation.

 Composition/information on ingredients Mixture/Substance selection: Substance Ingredient name:Potassium fluoride Content (%):95(min) Chemical formula:KF



Chemicals No, Japan:1-322 CAS No.:7789-23-3 MW:58.10 ECNO:232-151-5 Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

## IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

#### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

## IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth.

Immediately call a POISON CENTER/doctor/physician.

### 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

## Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face peace operated

positive pressure mode.

## 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures Ventilate area until material pick up is complete. Wear proper protective equipment.
Environmental precautions Prevent spills from entering sewers, watercourses or low areas. Avoid raising dust.
Methods and materials for containment and cleaning up Sweep up, place in a bag and hold for waste disposal.
Preventive measures for secondary accident Collect spillage.



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7. Handling and storage	
Precautions for safe handling	
Preventive measures	
(Protective measures against fire and explosion)	es and other ignition sources. No
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	
smoking.	
(Exhaust/ventilator)	
Exhaust/ventilator should be available.	
(Safety treatments)	
Avoid contact with skin.	
Avoid contact with eyes.	
Safety Measures	
Wear protective gloves, protective clothing or face protection.	
When using do not eat, drink or smoke.	
Any incompatibilities	
See "10.Stability and Reactivity"	
Advice on general occupational hygiene	
Wash contaminated parts thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Storage	
Conditions for safe storage	
Keep container tightly closed.	
Store in a cool, dry place. Do not store in direct sunlight.	
Container and packaging materials for safe handling	
Polyethylene	
8. Exposure controls/personal protection	
Control parameters	
Adopted value	
(Potassium fluoride)	
ACGIH(1996) TWA: 2.5mg-F/m3 (Bone dam; fluorosis)	
OSHA-PEL	
(Potassium fluoride)	
TWA: 2.5mg-F/m3	
Exposure controls	
Appropriate engineering controls	
Do not use in areas without adequate ventilation.	
Eye wash station should be available.	
Washing facilities should be available.	
Individual protection measures	
Respiratory protection	
Wear respiratory protection.	
Hand protection	
Wear protective gloves.	
Eye protection	

Wear eye/face protection.



9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Powder Color: White Odor: Odorless Melting point/Freezing point: 857°C Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Easily soluble n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 2.5 Relative vapor density (Air=1) data is not available. Particle characteristics data is not available.

10. Stability and Reactivity Reactivity Not available.

Chemical stability Hygroscopic (absorbs moisture from the air). Possibility of hazardous reactions Form hydrogen fluoride by contact with acids. Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Acids Hazardous decomposition products

Hazardous decomposition products Hydrogen fluoride

11. Toxicological Information
Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[GHS Cat. Japan, base data]
(Potassium fluoride)
rat LD50=245mg/kg (IUCLID, 2000)
Irritant properties
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.
Allergenic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenicity



(Potassium fluoride) ACGIH-A4(as F)(1996) : Not Classifiable as a Human Carcinogen Reproductive toxicity data is not available. STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Toxic to aquatic life with long lasting effects

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data] (Potassium fluoride)

Fish (Ctenopharyngodon idellus) LC50=9.3mg/L/96hr (IUCLID, 2000)

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

## Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment.

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No. or ID No.: 1812 UN Proper Shipping Name : POTASSIUM FLUORIDE, SOLID Class or division (Transport hazard class) : 6.1 Packing group : III ERG GUIDE No.: 154 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 1812 Proper Shipping Name : POTASSIUM FLUORIDE, SOLID Class or division : 6.1 Packing group : III IATA Dangerous Goods Regulations UN No.: 1812



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Proper Shipping Name : POTASSIUM FLUORIDE, SOLID Class or division : 6.1 Hazard labels : Toxic Packing group : III Environmental hazards MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : yes MARPOL Annex V - Prevention of pollution by garbage discharge Hazardous to the aquatic environment - long-term hazard: cat.1, 2 Potassium fluoride

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Potassium fluoride

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

## 16. Other information

GHS classification and labelling

Acute Tox. 3: H301 Toxic if swallowed

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2021 TLVs and BEIs. (ACGIH) Supplier's data/information

**General Disclaimer** 

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).