

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 01.17.2018

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Potassium Fluoride, ACS Grade

SECTION 1: Identification

Product identifier

Product name: Potassium Fluoride, ACS Grade

Product code: DUPF1000-K

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

AquaPhoenix Scientific
860 Gitts Run Road
Hanover
PA 17331
(717) 632-1291

Supplier:

Dubois Chemicals Inc.
3630 East Kemper Rd.
Cincinnati
OH, 45241
(800) 438-2647

Emergency telephone number:

United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity (oral), category 3

Acute toxicity (dermal), category 3

Acute toxicity (inhalation), category 3

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic if inhaled

Precautionary statements:

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P271 Use only outdoors or in a well-ventilated area

P321 Specific treatment (see supplemental first aid instructions on this label).

P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel

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unwell.

P361 Immediately remove/take off all contaminated clothing

P363 Wash contaminated clothing before reuse

P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell

P304+P340+P311 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|--------------------------|--------------------|----------|
| CAS number: 7789-23-3 | Potassium fluoride | >98 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Move exposed individual to fresh air

Call a POISON CONTROL CENTER or seek medical attention

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Immediately remove all contaminated clothing

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting

Rinse mouth and then drink plenty of water

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

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Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols

Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

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| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|--------------------|------------|--|
| ACGIH | Potassium fluoride | 7789-23-3 | ACGIH TLV TWA 2.5 mg/m ³ as F |
| United States (OSHA) | Potassium fluoride | 7789-23-3 | OSHA PEL TWA 2.5 mg/m ³ as F |
| NIOSH | Potassium fluoride | 7789-23-3 | NIOSH IDLH 250 mg/m ³ as F |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|-------------------------------|
| Appearance | White crystalline powder |
| Odor | Odorless |
| Odor threshold | Not determined |
| pH | Not determined |
| Melting point/freezing point | 860° C |
| Initial boiling point/range | 1505° C @ 760mmHg |
| Flash point (closed cup) | Not determined |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not determined |
| Upper flammability/explosive limit | Not determined |
| Lower flammability/explosive limit | Not determined |
| Vapor pressure | Not determined |
| Vapor density | Not determined |
| Density | Not determined |
| Relative density | Not determined |
| Solubilities | 92.3g/100mL (18° C) for water |
| Partition coefficient (n-octanol/water) | Not determined |
| Auto/Self-ignition temperature | Not determined |
| Decomposition temperature | Not determined |

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| | |
|----------------------|----------------|
| Dynamic viscosity | Not determined |
| Kinematic viscosity | Not determined |
| Explosive properties | Not determined |
| Oxidizing properties | Not determined |

Other information

| | |
|------------------|--------------------------|
| Specific Gravity | 2.4800 g/cm ³ |
|------------------|--------------------------|

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions. Hygroscopic (absorbs moisture from the air).

Possibility of hazardous reactions:

None under normal processing. Corrodes porcelain and glass.

Conditions to avoid:

Incompatible Materials. Dust generation. Excess heat.

Incompatible materials:

Oxidizing agents. Strong acids.

Hazardous decomposition products:

Hydrogen fluoride gas. Oxides of potassium.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Toxic if swallowed Toxic in contact with skin Toxic if inhaled

Product data: No data available.

Substance data:

| Name | Route | Result |
|--------------------|-------|------------------------|
| Potassium fluoride | oral | LD50 - Rat - 245 mg/kg |

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

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National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|--------------------|------------------------------|
| Potassium fluoride | LC50 (4 days): 51 - 340 mg/L |

Chronic (long-term) toxicity

Product data: No data available.

Substance data:

| Name | Result |
|--------------------|------------------------|
| Potassium fluoride | NOEC (21 days): 4 mg/L |

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

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SECTION 13: Disposal considerations

Disposal methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information


United States Transportation of dangerous goods (49 CFR DOT)

| | |
|-------------------------------|---|
| UN number | 1812 |
| UN proper shipping name | POTASSIUM FLUORIDE, SOLID |
| UN transport hazard class(es) | 6.1  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Excepted quantities | 30g/30mL |
| Passenger air/rail | 100KG |
| Cargo aircraft only | 200KG |
| Stowage category | A |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|---|
| UN number | 1812 |
| UN proper shipping name | POTASSIUM FLUORIDE, SOLID |
| UN transport hazard class(es) | 6.1  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Excepted quantities | 30g/30mL |
| Limited quantity | 5KG |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|-------------------------------|---|
| UN number | 1812 |
| UN proper shipping name | POTASSIUM FLUORIDE, SOLID |
| UN transport hazard class(es) | 6.1  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Excepted quantities | 30g/30mL |
| Passenger and cargo | 100KG |
| Cargo aircraft only | 200KG |
| Limited quantity | 5KG |

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SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

| | | |
|-----------|--------------------|--------|
| 7789-23-3 | Potassium fluoride | Listed |
|-----------|--------------------|--------|

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

| | | | | |
|-------|---------|------|----------|----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| No | No | No | No | No |

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

| | | |
|-----------|--------------------|------------|
| 7789-23-3 | Potassium fluoride | Not Listed |
|-----------|--------------------|------------|

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

| | | |
|-----------|--------------------|------------|
| 7789-23-3 | Potassium fluoride | Not Listed |
|-----------|--------------------|------------|

New Jersey Right to Know:

| | | |
|-----------|--------------------|--------|
| 7789-23-3 | Potassium fluoride | Listed |
|-----------|--------------------|--------|

New York Right to Know:

| | | |
|-----------|--------------------|--------|
| 7789-23-3 | Potassium fluoride | Listed |
|-----------|--------------------|--------|

Pennsylvania Right to Know:

| | | |
|-----------|--------------------|--------|
| 7789-23-3 | Potassium fluoride | Listed |
|-----------|--------------------|--------|

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 3-0-1

HMIS: 3-0-1

Initial preparation date: 01.17.2018

End of Safety Data Sheet