Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification	
· Product identifier	
• Trade name: <u>Potass</u> • Product code: PF322	
 Recommended use a Recommended use: Restrictions on use: 	
 Details of the supp Manufacturer/Suppli AquaPhoenix Scientifi 860 Gitts Run Road Hanover, PA 17331 U Tel +1 (717)632-1291 Toll-Free: (866)632-12 info@aquaphoenixsci Distributor: AquaPhoenix Scientifi 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 	c, Inc. SA 91 com
 Emergency telephor ChemTel Inc. (800)255-3924 (North +1 (813)248-0585 (In 	America)
2 Hazard(s) identif	cation
Classification of th	e substance or mixture
Classification of th Acute Tox. 4 H302 H	e substance or mixture armful if swallowed.
Classification of th Acute Tox. 4 H302 H Acute Tox. 4 H312 H	e substance or mixture armful if swallowed. armful in contact with skin.
Classification of th Acute Tox. 4 H302 H	e substance or mixture armful if swallowed. armful in contact with skin.
Classification of the Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements	e substance or mixture armful if swallowed. armful in contact with skin. oxic if inhaled.
Classification of th Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements The product is classifi	e substance or mixture armful if swallowed. armful in contact with skin. oxic if inhaled.
 Classification of the Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements The product is classifie Hazard pictograms: GHS06 Signal word: Danger Hazard statements: H302+H312 Harmful it H331 	e substance or mixture armful if swallowed. armful in contact with skin. bxic if inhaled. ed and labeled according to the Globally Harmonized System (GHS). swallowed or in contact with skin. haled.
 Classification of the Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements The product is classifie Hazard pictograms: GHS06 Signal word: Danger Hazard statements: H302+H312 Harmful in H331 Toxic if in Precautionary stater P261 Avoid bre 	e substance or mixture armful if swallowed. armful in contact with skin. oxic if inhaled. ed and labeled according to the Globally Harmonized System (GHS). ed and labeled according to the Globally Harmonized System (GHS). swallowed or in contact with skin. haled. haled. tents: athing mist, vapors, or spray.
 Classification of the Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements The product is classifie Hazard pictograms: GHS06 Signal word: Danger Hazard statements: H302+H312 Harmful i H331 Toxic if in Precautionary stater P261 Avoid bre P264 Wash the 	e substance or mixture armful if swallowed. armful in contact with skin. oxic if inhaled. ed and labeled according to the Globally Harmonized System (GHS). swallowed or in contact with skin. haled. haled. ments: athing mist, vapors, or spray. roughly after handling.
 Classification of the Acute Tox. 4 H302 H Acute Tox. 4 H312 H Acute Tox. 3 H331 T Label elements GHS label elements The product is classifie Hazard pictograms: GHS06 Signal word: Danger Hazard statements: H302+H312 Harmful in H331 Toxic if in Precautionary stater P261 Avoid bre P264 Wash the 	e substance or mixture armful if swallowed. armful in contact with skin. oxic if inhaled. ed and labeled according to the Globally Harmonized System (GHS). ed and labeled according to the Globally Harmonized System (GHS). swallowed or in contact with skin. haled. haled. tents: athing mist, vapors, or spray.

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P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7789-23-3 potassium fluoride

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331

25% 75%

· Additional information:

7732-18-5 Water

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

- · General information: Take affected persons out into the fresh air.
- · After inhalation:
- Supply fresh air.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a doctor.

• After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· Danger:

May cause neurotoxic effects. Toxic if inhaled.

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Harmful if swallowed or in contact with skin.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

· Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility:
- Store away from foodstuffs.

Do not store together with acids.

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· Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

8 Exposure co	ontrols/personal protection
The following recommended e	vith limit values that require monitoring at the workplace: constituent is the only constituent of the product which has a PEL, TLV or other exposure limit.
7789-23-3 pota	
PEL (USA)	Long-term value: 2.5 mg/m³ as F
REL (USA)	Long-term value: 2.5 mg/m³ as F
TLV (USA)	Long-term value: 2.5 mg/m³ as F, BEI
EL (Canada)	Long-term value: 2.5 mg/m³ as F
LMPE (Mexico)	Long-term value: 2.5 mg/m³ A4, IBE; como F
· Ingredients wit	th biological limit values:
7789-23-3 pota	ssium fluoride
Tim Para 3 m Mec Tim	Jium: urine e: prior to shift ameter: Fluoride (background, nonspecific) g/L Jium: urine e: end of shift
 Exposure con General protect General protect The usual precative Keep away from Wash hands be Do not inhale gat Avoid contact we Engineering con Breathing equities 	ctive and hygienic measures: autionary measures for handling chemicals should be followed. In foodstuffs, beverages and feed. offore breaks and at the end of work. ases / fumes / aerosols. with the eyes and skin. controls: Provide adequate ventilation. ipment: der normal conditions of use. spiratory protective device when high concentrations are present.

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Protective gloves

· Material of gloves

Neoprene gloves Nitrile rubber, NBR Fluorocarbon rubber (Viton) Natural rubber, NR Sensibilization by the components in the glove materials is possible. • **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment No special requirements.

· Risk management measures No special requirements.

Information on basic physical	and chemical properties	
Appearance:	• •	
Form:	Liquid	
Color:	Colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	>100 °C (>212 °F)	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	>1.10 g/cm³ (>9.18 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	

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Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Soluble.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

• **Reactivity:** No relevant information available.

- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Contact with acids releases toxic gases.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid No relevant information available.

[·] Incompatible materials

Strong acids

No relevant information available.

[•] Hazardous decomposition products

Under fire conditions only:

Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

[·] Information on toxicological effects

Acute toxicity:

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

· LD/LC50 values that are relevant for classification:

ATE (Acu	ite Toxicit	y Estimate)
Oral	LD50	392 mg/kg (mouse)
Dermal	LD50	1200 mg/kg
Inhalative	LC50/4h	2 mg/l
7789-23-3	B potassiu	ım fluoride
Oral	LD50	98 mg/kg (mouse)
		223 mg/kg (rat)
		148 mg/kg (rat, female)
· Primary i	rritant eff	ect:

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On the skin: Based on available data, the classification criteria are not met.	(- I
On the eye: Based on available data, the classification criteria are not met.	
Sensitization: Based on available data, the classification criteria are not met.	
IARC (International Agency for Research on Cancer):	
7789-23-3 potassium fluoride	
NTP (National Toxicology Program):	
None of the ingredients are listed.	
OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	
Probable route(s) of exposure:	
Ingestion.	
Inhalation.	
Eye contact.	
Skin contact.	
Acute effects (acute toxicity, irritation and corrosivity):	
Toxic if inhaled.	
Harmful if swallowed or in contact with skin.	
Repeated dose toxicity: No relevant information available.	
Germ cell mutagenicity: Based on available data, the classification criteria are not met.	
Carcinogenicity: Based on available data, the classification criteria are not met.	
Reproductive toxicity: Based on available data, the classification criteria are not met.	
STOT-single exposure: Based on available data, the classification criteria are not met.	
STOT-repeated exposure: Based on available data, the classification criteria are not me	t.
Aspiration hazard: Based on available data, the classification criteria are not met.	

12 Ecological Informati

· Aquatic toxicity No relevant information available.

- **Persistence and degradability** No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- [·] Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

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[·] Toxicity

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• **Recommendation:** Disposal must be made according to official regulations. • Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
[·] Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
[·] Packing group [·] DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	k II of Not applicable.	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.
· Proposition 65 (California)
· Chemicals known to cause cancer:
None of the ingredients are listed.
Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
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None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

7789-23-3 potassium fluoride

Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers