According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 01.26.2018

Potassium Nitrite, Reagent Grade

SECTION 1: Identification

Product identifier

Product name: Potassium Nitrite, Reagent Grade Product code: S25495

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: Supplier:

AquaPhoenix Scientific	Fisher Science Education
860 Gitts Run Road	6771 Silver Crest Road
Hanover	Nazareth
PA 17331	PA 18064
(717) 632-1291	800 955-1177

Emergency telephone number: United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Oxidizing solids, category 2 Acute toxicity (oral), category 3 Acute aquatic hazard, category 1

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H272 May intensify fire; oxidizer H301 Toxic if swallowed H400 Very toxic to aquatic life

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P220 Keep/Store away from clothing/combustible materials
P221 Take any precaution to avoid mixing with combustibles
P280 Wear protective gloves/protective clothing/eye protection/face protection
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment

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P370+P378 In case of fire: Use agents recommended in section 5 for extinction 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 unwell. P391 Collect spillage

P405 Store locked up

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: 7758-09-0	Potassium nitrite	100

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 Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

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:

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.

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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 Will release oxygen when heated, intensifying a fire

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion Heating causes a rise in pressure, risk of bursting and combustion

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 Sweep or scoop up solid material while minimizing dust generation Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation. Avoid breathing dust. Do not eat, drink, smoke or use personal products when handling chemical substances. **Conditions for safe storage, including any incompatibilities:** Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

Store away from flammable and combustible materials (paper, wood).

Store away from reducing agents (zinc, alkaline metals, formic acid).

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
United States (OSHA)	Potassium nitrite		OSHA PEL TWA (Total Dust) 15 mg/m ³ (50 mppcf*).
ACGIH	Potassium nitrite		ACGIH TLV TWA (inhalable particles) 10 mg/m ³ .

Biological limit values:

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

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

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.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Light yellow crystalline	
Odor	Not determined or not available.	
Odor threshold	Not determined or not available.	
рН	7.0 - 10.0 at 50 g/l at 25 °C	
Melting point/freezing point	387°C	
Initial boiling point/range	Not determined or not available.	
Flash point (closed cup)	Not determined or not available.	
Evaporation rate	Not determined or not available.	
Flammability (solid, gas)	Not determined or not available.	
Upper flammability/explosive limit	Not determined or not available.	
Lower flammability/explosive limit	Not determined or not available.	
Vapor pressure	Not determined or not available.	

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Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.915 g/cm³
Solubilities	Soluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	510°C
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Dust generation. Incompatible materials.

Incompatible materials:

Strong reducing agents. Powdered metals. Strong acids.

Hazardous decomposition products:

Nitrogen oxides. Potassium oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Toxic if swallowed

Product data: No data available.

Substance data:

Name	Route	Result	
Potassium nitrite	oral	LD50 Rabbit: 108 mg mg/kg	
	inhalation	LC50 Mouse: 85 g/m ³ (2Hr)	

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

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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. 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: Very toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result	
Potassium nitrite	LC50 - Danio rerio (zebra fish) - 620 mg/l - 96.0 h.	
	EC50 - Daphnia magna (Water flea) - 215 mg/l - 48 h.	

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

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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.

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

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1488
UN proper shipping name	POTASSIUM NITRITE
UN transport hazard class(es)	5.1
Packing group	11
Environmental hazards	None
Special precautions for user	None
Excepted quantities	30g/30mL
Passenger air/rail	25KG
Cargo aircraft only	100KG
Stowage category	A

International Maritime Dangerous Goods (IMDG)

UN number	1488	
UN proper shipping name	POTASSIUM NITRITE	
UN transport hazard class(es)	5.1	
Packing group	Ш	
Environmental hazards	None	
Special precautions for user	None	
Excepted quantities	30g/30mL	
Limited quantity	1KG	

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

UN number	1488
UN proper shipping name	POTASSIUM NITRITE
UN transport hazard class(es)	5.1

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Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	140
Excepted quantities	30g/30mL
Passenger and cargo	25KG
Cargo aircraft only	100KG
Limited quantity	1KG

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

7758-09-0 Potassium nitrite

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:

7758-09-0	Potassium nitrite	Not
		Listed

CERCLA: Not determined.

RCRA: Not determined.

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

Massachusetts Right to Know:

	7758-09-0	Potassium nitrite	Not Listed			
New Jersey Right to Know:						
	7758-09-0	Potassium nitrite	Listed			
New York Right to Know:						
	7758-09-0	Potassium nitrite	Listed			
Pe	Pennsylvania Right to Know:					
	7758-09-0	Potassium nitrite	Not Listed			

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless

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specified in the text. The responsibility to provide a safe workplace remains with the user. **NFPA:** 2-0-2 **HMIS:** 2-0-2 **Initial preparation date:** 01.26.2018

End of Safety Data Sheet