Potassium Nitrite

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Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Potassium Nitrite Science education applications Potassium Salt, Nitrous Acid Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



May intensify fire; oxidizer. Very toxic to aquatic life.

GHS Classification:

Hazardous to the aquatic environment - Acute Category 1, Oxidizing Solid Category 2

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas	100 % 100 % 100 %
Contains Acute Toxicity Inhalation Vapor Contains	100 %
Contains Acute Toxicity Inhalation Dust/Mist Contains	100 %

Section 3

Composition / Information on Ingredients

First Aid Measures

of the mixture consists of ingredient(s) of unknown toxicity of the mixture consists of ingredient(s) of unknown toxicity of the mixture consists of ingredient(s) of unknown toxicity

of the mixture consists of ingredient(s) of unknown toxicity

of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name Potassium Nitrite CAS # 7758-09-0 <u>%</u> 100

Section 4

Emergency and First Aid Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.			
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
Skin Contact:	After contact with skin, wash immediately with plenty of water.			
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.			

Use dry chemical, CO2 or appropriate foam.

Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:

Fire and/or Explosion Hazards:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire or excessive heat may produce hazardous decomposition products. Product is a strong oxidizer. Explosive when mixed with oxidising substances.

Hazardous Combustion Products:

K2O - Potassium Oxide,, Nitrogen oxides

Section 6 Spill or Leak Procedures Exposure to the spilled material may be severely irritating or toxic. Follow personal protective Steps to Take in Case Material Is **Released or Spilled:** equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid contact with clothing. Avoid the

generation of dusts during clean-up. Avoid contact with material. Avoid breathing material. Avoid contact with skin and eyes. Reduce airborne dust and prevent scattering by moistening with water Ventilate the area by opening door and/or turning on fans and blowers. Vacuum or sweep up material and place in a disposal container Contain the discharged material. Do not allow the spilled product to enter public drainage system or open waterways. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like

granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Collect spillage.

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

protection may be required in addition to ventilation depending upon conditions of use.

Wear chemical splash goggles when handling this product. Have an eye wash station

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

No respiratory protection required under normal conditions of use. Respiratory

Section 7

Section 8

Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Storage: Storage Code: Yellow - Reactive. Store separate and away from incompatible material.

Protection Information

Lab coat, apron, eye wash, safety shower.

available.

work. Nitrile

	AC	<u>GIH</u>	OSHA PEL		
<u>Chemical Name</u>	(TWA)	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)	
No data available	N/A	N/A	N/A	N/A	

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): **Respiratory Protection:**

Eye Protection:

Skin Protection:

Gloves:

Section 9

- Physical Data
- Formula: KNO2 Molecular Weight: 85.1 Appearance: Crystalline Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: 350 C Boiling Point: 538 C Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.915 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity:
Chemical Stability:
Conditions to Avoid:
Incompatible Materials:
Hazardous Decomposition Products:
Hazardous Polymerization:

No data available Stable under normal conditions. None known. Metals (powdered), Strong acids, Strong reducing agents Nitrogen oxides, K2O - Potassium Oxide, Will not occur

Section 11

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Toxicity Data

Routes of Entry	Inhalation, ingestion, eye or skin contact.
Symptoms (Acute):	N/A
Delayed Effects:	No data available

Acute Toxicity: Chemical Name No data available		CAS Number 7758-09-0	Oral LD50 Not determined	Dermal LD50 Not determined	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name Potassium Nitrite		CAS Number 7758-09-0	IARC Listed	NTP Not listed	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.					

Target Organ Effects: See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.

Not Determined

Section 12

Acute:

Chronic:

Ecological Data

Overview: Mobility: Persistence:	Moderate ecological ha waterways. No data No data	azard.	This product may be dangerous to plants and/or wildlife. Keep out of	
Bioaccumulation:	No data			
Degradability:	No data			
Other Adverse Effects:	No data			
Chemical Name	CAS Num	nber	Eco Toxicity	
Potassium Nitrite	7758-09-0	0	Aquatic LC50 (96h)	
			Aquatic LC50 (48h) Daphnia = 215 MG/L	
Section 13	Disposal Information			

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name: UN1488, Potassium nitrite, 5.1, PG II, Ltd Qty = 1 Air - IATA Proper Shipping Name: UN number: 1488 Class: 5.1 Packing group: II Proper shipping name: Potassium nitrite

Section 15

Section 14

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7758-09-0	No	No	No	No	No

Section 16

Additional Information

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Replaces: 05/07/2015

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health