# **Nitrate Broth**

# CAROLINA®

# **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Chemical Information:** 

Section 1

Nitrate Broth Science education applications N/A 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)

# Chemtrec: Section 2

**Hazard Identification** 

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

**GHS Classification:** 

Section 3	Composition / Information on Ingredients			
Chemical Name	<u>CAS #</u>	<u>%</u>		
Water	7732-18-5	99.1		
Peptones	73049-73-7	0.4		
Beef Extract		0.3		
Proteose Peptone	N/A	0.1		
Potassium nitrate	7757-79-1	0.1		

#### **Section 4**

#### **First Aid Measures**

#### **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.Ingestion:If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5

## **Firefighting Procedures**

Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Product is a strong oxidizer. N/A Thermal decomposition produces highly toxic fumes. Explosive reaction with potassium chlorate or bromine trifluoride. Violent reaction (ignition) with bromine pentafluoride, NH4, NO3, and IF7. Risk of explosion by shock, friction, fire or other sources of ignition.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides

# **Section 6**

# Spill or Leak Procedures

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.

#### **Section 7**

Section 8

# Handling and Storage

Handling:Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty<br/>containers hazardous; use caution.Storage:Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

# Protection Information

	ACGIH		OSHA PEL	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	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.			
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	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 work.			
Gloves:	No information availabl	e		

#### **Section 9**

# **Physical Data**

Formula: N/A Molecular Weight: N/A Appearance: Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A N/A

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: 10 Percent Volatile by Volume: N/A

## Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: No data available Stable under normal conditions. None known. Water-reactive materials Carbon dioxide, Carbon monoxide, Nitrogen oxides Will not occur

Toxicity Data

Reactivity Data

# Section 11

Routes of Entry Symptoms (Acute): Delayed Effects: Inhalation and ingestion. N/A No data available

Acute Toxicity: Chemical Name

CAS Number

Oral LD50

Dermal LD50

Inhalation LC50

Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a set No evidence of neg See Section 2	ratogenic effect (birth	ects.		
Mutagenicity: Teratogenicity: Sensitization: Reproductive:	No evidence of a te No evidence of a se	ratogenic effect (birth ensitization effect.			
Mutagenicity: Teratogenicity: Sensitization:	No evidence of a te No evidence of a se	ratogenic effect (birth ensitization effect.			
Mutagenicity: Teratogenicity:	No evidence of a te	ratogenic effect (birth	defect).		
Mutagenicity:		-	defect).		
	No evidence of a m	utagenic effect.			
Chaomia Effecter					
Potassium nitrate		7757-79-1	Listed	Not listed	Not listed
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA
Potassium nitrate		7757-79-1	Oral LD50 Rat 3750 mg/kg Oral LD50 Rabbit 1901 mg/kg Oral LD50 Rat 3540 mg/kg		
Water		7732-18-5	Oral LD50 Rat 90000 mg/kg		

**CAS Number** 

7732-18-5

7757-79-1

**Overview:** 

Mobility: Persistence:	
Bioaccumulation:	
Degradability: Other Adverse Effects:	

Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. No data No data No data No data No data

**Chemical Name** Water Potassium nitrate

## **Section 13**

**Disposal Methods:** 

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Aquatic EC50 (48h) Daphnia = 226 MG/L

Waste Disposal Code(s):

## Section 14

# **Transport Information**

**Eco Toxicity** 

No data available

**Disposal Information** 

Ground - DOT Proper Shipping Name: N/A

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Aquatic LC50 Mosquitofish (Gambusia affinis) = 22.5 MG/L

Section 15	Regulatory Information					
TSCA Status:	All comp	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		No	No	No	No	No

# Section 16

# **Additional Information**

#### Revised: 09/03/2014

#### Replaces: 08/27/2014

#### Printed: 09-12-2014

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			
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