Nitrate Broth, Dehydrated



Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Nitrate Broth, Dehydrated 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)

Chemical Information: Chemtrec:

Hazard Identification

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

WARNING



May intensify fire; oxidizer. Harmful to aquatic life.

GHS Classification:

Oxidizing Solid Category 3, Hazardous to the aquatic environment - Acute Category 3

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Dust/Mist Contains 88.9 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Peptones	73049-73-7	<u>44.4</u>
Beef Extract	N/A	33.3
Potassium nitrate	7757-79-1	11.1
Proteose Peptone	N/A	11.1

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 dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained
Fire and/or Explosion Hazards:	breathing apparatus. 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.

0----.:

Hazardous Comb	ustion Products:	lucts: Carbon dioxide, Carbon monoxide, Nitrogen oxides				
Section 6		Spill or Leak P	rocedures			
Steps to Take in 0 Released or Spille	ed: pi N E ev no th ei bi S N	b adverse health affects expected from the clean-up of spilled material. Follow personal otective equipment recommendations found in Section 8 of this (M)SDS. b adverse health affects expected from the clean-up of spilled material. A spour to the spilled material may be irritating or harmful. Follow personal protective guipment recommendations found in Section 8 of this SDS. Additional precautions may be cressary based on special circumstances created by the spill including; the material spilled, e quantity of the spill, the area in which the spill occurred. Also consider the expertise of nployees in the area responding to the spill. Avoid dusting. Poses little or no immediate trade area. Remove soiled clothing and launder before reuse. Date area. Keep unnecessary personnel away. b special spill clean-up considerations. Collect and discard in regular trash. Avoid creating lists. Cover material with absorbent and moisten and collect for disposal.				
Section 7		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. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.					
Storage: Storage Code:	Keep container tightly closed in a cool, well-ventilated place. Yellow - Reactive. Store separate and away from incompatible material.					
Section 8		Protection Inf	ormation			
<u>Chemical Name</u> No data available		ACGIH (TWA) N/A	(STEL) N/A	<u>OSHA</u> (TWA) N/A	<u>PEL</u> (STEL) N/A	
Control Parameters Engineering Measures: Personal Protective Equipment (PPE): Respiratory Protection:		No exposure limits exist fo might be required to maint Lab coat, apron, eye wash No respiratory protection r	ain operator comfor , safety shower. equired under norm	rt under normal conditional conditional conditions of use.	ons of use.	
Eye Protection: Skin Protection:		Wear chemical splash goggles when handling this product. Have an eye wash station available. 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				
Gloves:		work. Natural latex,, Natural rubl	per, Neoprene, Nitri	le, Polyvinyl chloride		
Section 9		Physical	Data			
Formula: N/A Molecular Weight Appearance: Beig Odor: No data ava Odor Threshold:	je Powder ailable No data available	Ev Va Sp Sc	por Pressure: N/A aporation Rate (B por Density (Air=1 becific Gravity: N/A blubility in Water: S	uAc=1): N/A 1): N/A A Slightly Soluble		

Nitrate Broth, Dehydrated

pH: 7.0 - 7.4 at 25 °C (77 °F)

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available Flammable Limits in Air: N/A N/A

Section 10

Chemical Stability:

Reactivity:

Reactivity Data

Log Pow (calculated): No data available

Viscosity: No data available

Percent Volatile by Volume: 0%

Autoignition Temperature: No data available

Decomposition Temperature: No data available

No data available Stable under normal conditions.

Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		None known. Oxidizing materials, Metals (powdered), Strong reducing agents, Strong acids, Organic Compounds Nitrogen oxides, Carbon dioxide, Carbon monoxide Will not occur					
Section 11		Toxic	city Data				
- , , , , , , , , , , , , , , , , , , ,	Ingestion. N/A No data available						
Acute Toxicity: Chemical Name Potassium nitrate		CAS Number 7757-79-1	Oral LD50 Oral LD50 Rat 3750 mg/kg Oral LD50 Rabbit 1901 mg/kg Oral LD50 Rat 3540 mg/kg	Dermal LD50	Inhalation LC50		
Carcinogenicity: Chemical Name Potassium nitrate		CAS Number 7757-79-1	Listed	NTP Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of No evidence of No evidence of See Section	a mutagenic effect. a teratogenic effect (bi a sensitization effect. negative reproductive 2 a carcinogen by IARC	effects.				
Section 12			Ecological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	wildlife. No data No data No data No data		gh concentrations, this p	roduct may be danger	ous to plants and/or		
Chemical Name Potassium nitrate		CAS Number 7757-79-1	Eco Toxicity Aquatic LC50 Mosquit Aquatic EC50 (48h) Da		s) = 22.5 MG/L		
Section 13		Dis	posal Informat	ion			
Disposal Methods: Waste Disposal Code(e with all applicable Fede aste disposer (TSD) to a		egulations. Always		
Section 14		Trar	nsport Informa	tion			
Ground - DOT Proper S Not Regulated for Trans			Air - IATA Proper Not regulated for ai	Shipping Name: r transport by IATA.			
Section 15		Regi	ulatory Informa	ation			
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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		No	No	No	No	No

Section 16

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Replaces: 09/03/2014

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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.

Additional Information

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