Ringer Solution, Amphibian



Section 1

Product Description

Product Name: Ringer Solution, Amphibian Recommended Use: Science education applications

Synonyms: N/A

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards. May cause eve irritation.

May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

Section 3

Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Water	7732-18-5	99.2
Sodium Chloride	7647-14-5	0.65
Sodium Bicarbonate	144-55-8	0.02
Calcium Chloride, Dihydrate	10035-04-8	0.02
Potassium Chloride	7447-40-7	0.01
Sodium Phosphate, Monobasic, Anhydrous (CAS # 7558-80-7) 100%	7558-80-7	0.1

Section 4

First Aid Measures

Emergency and First Aid Procedures

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.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: None Known

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Poses little or no immediate hazard Remove soiled clothing and launder before reuse.

Contain the discharged material. Absorb the liquid and scrub the area with detergent and water.

Section 7

Handling and Storage

Handling: Keep container tightly closed in a cool, well-ventilated place.

Storage: Suitable for any general chemical storage.

Storage Code: Green - general chemical storage

Section 8

Protection Information

	ACC	<u>OSHA PEL</u>		
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)
Sodium Chloride	N/A	N/A	N/A	N/A
Sodium Bicarbonate	N/A	N/A	N/A	N/A
Calcium Chloride, Dihydrate	N/A	N/A	N/A	N/A
Potassium Chloride	N/A	N/A	N/A	N/A

Control Parameters

No exposure limits exist for the constituents of this product. General room ventilation **Engineering Measures:**

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

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

Gloves: Natural rubber, Neoprene, PVC or equivalent.

Section 9

Physical Data

Formula: See Section 3 Vapor Pressure: Approximately 17.535 at 20 °C

Molecular Weight: N/A Appearance: Colorless Liquid

Odor: None

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

Evaporation Rate (BuAc=1): 1 Vapor Density (Air=1): N/A Specific Gravity: Approximately 1 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: Approximately 99%

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Decomposition Products: None Known **Hazardous Polymerization:** Will not occur

Section 11

Toxicity Data

Routes of Entry N/A Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Water

Oral LD50 **Dermal LD50 Chemical Name CAS Number** Inhalation LC50

7732-18-5 Oral LD50 Rat

90000 mg/kg

Sodium Chloride 7647-14-5 Oral LD50 Mouse

4000 mg/kg Oral LD50 Rat

3000 mg/kg Sodium Bicarbonate 144-55-8 Oral LD50 Rat

4220 mg/kg Oral LD50 Mouse

3360 mg/kg

Calcium Chloride, Dihydrate 10035-04-8 Oral LD50 Rabbit

1384 mg/kg

Potassium Chloride 7447-40-7 Oral LD50 Rat

2600 mg/kg

Oral LD50 Mouse

1500 mg/kg

Sodium Phosphate, Monobasic, Anhydrous 7558-80-7 Oral LD50 Rat

(CAS # 7558-80-7) 100%

8290 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP **OSHA** Sodium Chloride 7647-14-5 Not listed Not listed Not listed Sodium Bicarbonate 144-55-8 Not listed Not listed Not listed Calcium Chloride, Dihydrate 10035-04-8 Not listed Not listed Not listed Potassium Chloride 7447-40-7 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Dissolved into water

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Chloride 7647-14-5 96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 1000 MG/L

Sodium Bicarbonate 144-55-8 48 HR EC50 DAPHNIA MAGNA 2350 MG/L

120 HR EC50 NITZSCHIA LINEARIS 650 MG/L

Calcium Chloride, Dihydrate 10035-04-8

Potassium Chloride 7447-40-7 Aquatic LC50 (96h) Bluegill Sunfish 1060 MG/L

Aquatic EC50 (48h) Daphnia 825 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS 2500 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): Not Determined

Section 14

N/A

Transport Information

Ground - DOT Proper Shipping Name:

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

All components in this product are on the TSCA Inventory.

Section 15 Regulatory Information

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Chloride	7647-14-5	No	No	No	No	No
Sodium Bicarbonate	144-55-8	No	No	No	No	No
Calcium Chloride, Dihydrate	10035-04-8	No	No	No	No	No
Potassium Chloride	7447-40-7	No	No	No	No	No

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 07/31/2015 Printed: 10-29-2015

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.

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TSCA Status:

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