## Ringer Solution, Amphibian



#### Section 1

### **Product Description**

Product Name:Ringer Solution, AmphibianRecommended 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 eye 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**

	<u>ACGIH</u>		<u>OSHA PEL</u>	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(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** 

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: 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

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

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available

Melting Point: No data available

Boiling Point: 100 C

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point: No data available

Viscosity: No data available

Flammable Limits in Air: N/A 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:** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Sodium Chloride 7647-14-5 Oral LD50 Mouse 4000 mg/kg Sodium Bicarbonate 144-55-8 Oral LD50 Rat 4220 mg/kg Oral LD50 Mouse 3360 mg/kg Oral LD50 Rabbit Calcium Chloride, Dihydrate 10035-04-8 1384 mg/kg Potassium Chloride 7447-40-7 Oral LD50 Rat 2600 mg/kg Oral LD50 Mouse

Sodium Phosphate, Monobasic, Anhydrous 7558-80-7 0ral LD50 Rat (CAS # 7558-80-7) 100% 8290 mg/kg

Carcinogenicity:

**CAS Number IARC** NTP **OSHA Chemical Name** 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 availableSodium chloride7647-14-596 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 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: N/A Not regulated for air transport by IATA.

## Section 15 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
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

California Prop 65:

No California Proposition 65 ingredients

Section 16	Additional
	Information

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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			
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