## SAFETY DATA SHEET

# **GENERAL STORAGE CODE GREEN**

Section 1	Chemical Product and Company Information	Page E1 of E2
	80 Northwest Blvd. Nashua, NH 03063 (800) 225-3739	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product	RINGER'S SOLUTION - MAMMAL	
Synonyms	None	
Section 2	Hazards Identification	
to the Globa Chemicals. Signal word Pictograms: Target orgar GHS Classif GHS Label ii	nce or mixture has not been classified as hazardous according illy Harmonized System (GHS) of Classification and Labeling of : Not classified ns: None known fication: Not classified nformation: Hazard statement(s): Not classified ry statement(s): Not classified	Supplementary information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Water Sodium chloride		7732-18-5 7647-14-5	98.97% 0.95%	231-791-2 231-598-3		
Potassium chloride Calcium chloride, dihydrate Sodium bicarbonate		7447-40-7 10035-04-8 144-55-8	0.04% 0.02% 0.02%	231-211-8 233-140-8 (anhydrous) 205-633-8		
		144-55-6	0.02%	205-055-0		

### Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Section 7 Handling & Storage

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Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale mist/vapours/spray. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Store away from acids.

Section 8 Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium chloride	None established	None established	None established		

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

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Section 9 Physical & Chemical Pro	perties						
Appearance: Clear, colorless liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate ( Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.			Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture ) Molecular weight: Mixture			
Section 10 Stability & Reactivity							
Chemical stability: Stable       Hazardous polymerization: Will not occur.         Conditions to avoid: Excessive temperatures which cause evaporation.         Incompatible materials: Strong acids.         Hazardous decomposition products: Electrolysis can produce chlorine gas.							
Section 11 Toxicological Information	L						
Acute toxicity:       Oral-rat LD50: 3000 mg/kg [Sodium chloride]         Skin corrosion/irritation:       Data not available         Serious eye damage/irritation:       Data not available         Respiratory or skin sensitization:       Data not available         Respiratory or skin sensitization:       Data not available         Germ cell mutagenicity:       Data not available         Carcinogenity:       Data not available         NTP:       No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.         IARC:       No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.         OSHA:       No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.         Reproductive toxicity:       Data not available         STOT-single exposure:       Data not available         STOT-repeated exposure:       Data not available         Aspiration hazard:       Data not available         Potential health effects:       Inhalation:         Inhalation:       Inlagetion of large amounts (more than 0.1 pound) may cause vomiting.         Skin:       Contact may cause very slight irritation.         Eyes:       Contact may cause very slight irritation. </td							
Section 12 Ecological Information							
Toxicity to fish: Lepomis macrochirus (fish, freshwater) LC50: 9,675 mg/l/96 hours [Sodium chloride]         Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea) EC50: 6,175 mg/l/16 hours [Sodium chloride]         Toxicity to algae: Anabaena variabilis (Algae) LC50: 23,565 mg/l/4 day [Sodium chloride]         Persistence and degradability: No data available       Bioaccumulative potential: No data available         Mobility in soil: No data available       PBT and vPvB assessment: No data available         Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13 Disposal Considerations							
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or localregulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.Section 14Transport Information							
UN/NA number:Not applicableShipping name:Not RegulatedHazard class:Not applicablePacking group:Not applicableReportable Quantity:NoMarine pollutant:NoExceptions:Not applicable2012 ERG Guide #Not applicableMarine pollutant:No							
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for				DCI	NDO		
Component All components listed with the following agencies	Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Listed	NDSL Not listed	WHMIS Classification Uncontrolled product	

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.