



# Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

## MATERIAL SAFETY DATA SHEET

### MSDS

Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

## Section 1 - Chemical Product and Company Identification

**Product Name : RINGER'S solution**

**Synonyms:**

**CAS No.:** Not Applicable

**Molecular Weight:** Not Applicable

**Chemical Formula:** Not Applicable

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Chloride	7647-14-5	0.832%	Yes
Potassium Chloride	7447-40-7	0.021%	Yes
Calcium Chloride, Dihydrate	10035-04-8	0.020%	Yes
Magnesium Chloride	7791-18-6	0.040%	Yes
Sodium Bicarbonate	144-55-8	0.02%	Yes

## Section 3 - Hazardous Identification

**Emergency Overview:** This product is not expected to be a hazard under normal condition of use.

**Potential Health Effects:**

**Eyes:** May cause irritation.

**Skin:** May cause irritation.

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** May cause irritation to respiratory tract.

## Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - Flush thoroughly with water. Seek medical attention if irritation persists.

Skin - Wash exposed area with soap and water. Seek medical attention if irritation persists.

Ingestion - In quantities normally handled, symptoms would not be expected. If swallowed, if conscious, give water. Seek medical attention if gastrointestinal irritation or other unexpected symptoms develop.

Inhalation - Not expected to present a problem. However, if the exposed person is having trouble breathing, remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

## Section 5 - Fire Fighting Measures

Flash Point(Method Used): N/A

NFPA Rating: None established

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

## Section 6 - Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.

Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Handling and Storage

Precautions to be Taken in Handling or Storing: Store tightly closed in an area suitable for general chemical storage.

## Section 8 - Exposure Controls, Personal Protection

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

## Section 9 - Physical and Chemical Properties

Molecular Weight: N/A  
Melting Point: N/A  
Boiling Point: N/A  
Vapor Pressure: N/A  
Vapor Density(Air=1): N/A  
Specific Gravity(H<sub>2</sub>O=1): N/A  
Percent Volatile by Volume: N/A  
Evaporation Rate(H<sub>2</sub>O=1): N/A  
Solubility in Water: N/A  
Appearance and Odor: Clear, colorless solution with no odor.

## Section 10 - Stability and Reactivity

Stability: Stable  
Conditions to Avoid: None  
Incompatibility(Materials to Avoid): Water reactive materials.  
Hazardous Decomposition Products: None  
Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

Toxicity Data:  
Sodium chloride- LD50(oral-rat) - 3000 mg/kg  
Potassium chloride-LD50(oral-rat) - 2600 mg/kg  
Calcium chloride, Dihydrate-LD50(oral-rat) - 1000 mg/kg  
Magnesium chloride-LD50(oral-rat) - 8100 mg/kg  
Sodium Bicarbonate-LD50(oral-rat) - 4220 mg/kg  
Effects of Overexposure:  
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Acute: See section 3  
Chronic: Components are not listed as causing cancer by IARC, NTP, or OSHA.

## Section 12 - Ecological Information

EPA Waste Numbers: None

## Section 13 - Disposal Considerations

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.  
Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**Not Regulated**

## Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting: Acute  
SARA Sec. 313  
SARA EHS Chemicals CERCLA RCRA  
Product or Sec. 302 Name Chemical Sec. 103 Sec.  
Components TPQ List Category RQ lbs. 261.33  
Sodium Chloride No No No No No  
Potassium- No No No No No  
Chloride  
Calcium- No No No No No  
Chloride, Dihydrate  
Magnesium- No No No No No  
Chloride  
Sodium- No No No No No  
Bicarbonate

## Section 16 - Additional Information

ACGIH.....American Conference of Governmental Industrial Hygienists  
CAS Number..Chemical Abstracts Service Number  
CERCLA.....Comprehensive Environmental Response, Compensation, and  
Liability Act  
DOT.....U.S. Department of Transportation  
IARC.....International Agency of Research on Cancer  
mppcf.....million particles per cubic foot  
N/A.....Not Available NTP.....National Toxicology  
Program OSHA.....Occupational Safety and Health  
Administration PEL.....Permissible Exposure Limit  
ppm.....parts per million