

SECTION 1 - Chemical Product & Company Identification

Product Name SaltRx Kit

Product Number HR2-108

Company Hampton Research

Street Address 34 Journey

City, State, Zip, Country Aliso Viejo, CA 92656, U.S.A

Technical Phone 949 425 1321

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For **CHEMTREC** Assistance, call: 800 424 9300

For International **CHEMTREC** Assistance, call: 703 527 3887

SECTION 2 - Composition / Information on Ingredient

Substance Name	CAS #	EC No	SARA	RTECS	LD50
Ammonium acetate	631-61-8	211-162-9	No	AF3675000	736 mg/kg - Mouse - Intraperitoneal
Ammonium chloride	12125-02-9	235-186-4	No	BP4550000	1,650 mg/kg - Rat - Oral
Ammonium citrate dibasic	3012-65-5	221-146-3	No	GE7545000	N/A
Ammonium citrate tribasic	3458-72-8	222-394-5	No	N/A	N/A
Ammonium nitrate	6484-52-2	229-347-8	No	BR9050000	2,217 mg/kg - Rat - Oral
Ammonium phosphate dibasic	7783-28-0	231-987-8	No	N/A	N/A
Ammonium phosphate monobasic	7722-76-1	231-764-5	No	N/A	5,750 mg/kg - Rat - Oral
Ammonium sulfate	7783-20-2	231-984-1	No	BS4500000	2,840 mg/kg - Rat - Oral
Ammonium tartrate dibasic	3164-29-2	221-618-9	No	WW8050000	N/A
BIS-TRIS propane	64431-96-5	264-899-3	No	N/A	N/A
DL-Malic acid	6915-15-7	230-022-8	No	ON7175000	1,600 mg/kg - Rat - Oral
Lithium sulfate monohydrate	10102-25-7	233-820-4	No	N/A	N/A
Magnesium formate dihydrate	557-39-1	N/A	N/A	N/A	N/A
Magnesium sulfate hydrate	22189-08-8	231-298-2	No	N/A	N/A
Potassium phosphate dibasic	7758-11-4	231-834-5	No	N/A	N/A
Potassium sodium tartrate tetrahydrate	6381-59-5	206-156-8	No	N/A	N/A
Potassium thiocyanate	333-20-0	206-370-1	No	XL1925000	854 mg/kg - Rat - Oral
Sodium acetate trihydrate	6131-90-4	204-823-8	No	AJ4580000	N/A
Sodium chloride	7647-14-5	231-598-3	No	VZ4725000	3,000 mg/kg - Rat - Oral
Sodium citrate tribasic dihydrate	6132-04-3	200-675-3	No	N/A	N/A
Sodium formate	141-53-7	205-488-0	No	LR0350000	11,200 mg/kg - Mouse - Oral

(CONTINUED) - SECTION 2 - Composition / Information on Ingredient

Substance Name	CAS #	EC No	SARA	RTECS	LD50
Sodium malonate	141-82-2	205-503-0	No	OO0175000	1,310 mg/kg - Rat - Oral
Sodium nitrate	7631-99-4	231-554-3	No	WC5600000	1,267 mg/kg - Rat - Oral
Sodium phosphate monobasic monohydrate	10049-21-5	231-449-2	No	N/A	N/A
Succinic acid	110-15-6	203-740-4	No	WM4900000	2,260 mg/kg - Rat - Oral
Tacsimate	N/A	N/A	N/A	N/A	N/A
Tris	77-86-1	201-064-4	No	TY2900000	5,900 mg/kg - Rat - Oral

SECTION 3 - Hazards Identification

HMIS RATING

HEALTH HAZARD: 0

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH HAZARD: 0

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATINGS

0 - LEAST

1 - SLIGHT

2 - MODERATE

3 - HIGH

4 - EXTREME

For additional information on toxicity, please refer to **SECTION 11**.

SECTION 4 - First Aid Measures

ORAL EXPOSURE

- If swallowed, wash out mouth with water provided person is conscious.
- DO NOT INDUCE VOMITING.
- Call a physician.

INHALATION EXPOSURE

- If inhaled, remove to fresh air.
- If breathing is difficult, GIVE OXYGEN.
- Call a physician.

DERMAL EXPOSURE

- In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes.
- Take off contaminated clothing and shoes immediately.
- Call a physician.

EYE EXPOSURE

- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.
- Assure adequate flushing by separating the eyelids with fingers.
- Call a physician.

SECTION 5 - Fire Fighting Measures

FLASH POINT

N/A

FLAMMABILITY

N/A

AUTOIGNITION TEMPERATURE

N/A

EXTINGUISHING MEDIA

- Suitable: Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

- Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Specific Hazard(s): Emits toxic fumes under fire conditions.

SECTION 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTIONS

- Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

- Wash spill site with soap solution. Flush spill area with copious amounts of water.
- Place in appropriate container.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - Handling & Storage

HANDLING

- User Exposure - Ensure adequate inhalation.
 - Avoid inhalation.
 - Avoid contact with eyes, skin, and clothing.
 - Avoid prolonged or repeated exposure.

STORAGE

- Suitable: Keep container tightly closed.

SECTION 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

- Mechanical exhaust required.
- Safety shower and eye bath

(CONTINUED) - SECTION 8 - Exposure Controls / PPE

PERSONAL PROTECTIVE EQUIPMENT

- Respiratory: Use respirators and components tested and approved under appropriate government standards such as (NIOSH) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type (P1) (EN 143) dust masks.
- Hand: Compatible chemical-resistant gloves.
- Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

- Wash thoroughly before and after handling.

SECTION 9 - Physical / Chemical Properties

APPEARANCE PROPERTY	PHYSICAL STATE: VALUE	Liquid AT TEMPERATURE OR PRESSURE
Molecular Weight	N/A	
pH	N/A	
BP / BP Range	N/A	
MP / MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Concentration	N/A	
SG / Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile %	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temperature	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temperature	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

N/A = NOT AVAILABLE

SECTION 10 - Stability & Reactivity

STABILITY

- Stable: Stable under recommended storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS

- No data available.

HAZARDOUS EXOTHERMIC REACTIONS

- Will not occur.

HAZARDOUS POLYMERIZATION

- Will not occur.

SECTION 11 - Toxicological Information

ACUTE TOXICITY

- No data available.

IRRITATION AND CORROSION

- No data available.

SENSITISATION

- No data available.

CHRONIC EXPOSURE

- No data available.

ROUTE OF EXPOSURE

- Skin Contact: May cause skin irritation
- Skin Absorption: May be harmful if absorbed through the skin.
- Eye Contact: May cause eye irritation.
- Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.
May be harmful if inhaled.
- Ingestion: May be harmful if swallowed.

SIGNS & SYMPTOMS OF EXPOSURE

- To the best of our knowledge, the chemical, physical, and toxicological properties have NOT been thoroughly investigated.

SECTION 12 - Ecological Information

- No data available.

(CONTINUED) - SECTION 15 - Regulatory Information

EU ADDITIONAL INFORMATION (Continued)

Substance Name	CAS #	HAZARD Code	R-Phrase	S-Phrase
Potassium phosphate dibasic	7758-11-4			22-24/25
Potassium sodium tartrate tetrahydrate	6381-59-5			22-24/25
Potassium thiocyanate	333-20-0	Xn	20/21/22-32-52/53	13-61
Sodium acetate trihydrate	6131-90-4			
Sodium chloride	7647-14-5			
Sodium citrate tribasic dihydrate	6132-04-3			
Sodium formate	141-53-7			
Sodium malonate	141-82-2	Xn	20/22-41	26-36/39
Sodium nitrate	7631-99-4	O, Xn	8-22-36/37/38	17-26-27-36/37/39
Sodium phosphate monobasic mono-hydrate	10049-21-5			
Succinic acid	110-15-6	Xi	37/38-41	26-36/37/39
Tacsimate	N/A			
Tris	77-86-1	Xi	36	26

UNITED STATES REGULATORY INFORMATION

- SARA LISTED: No
- SARA LISTED: For additional information on toxicity, please refer to **SECTION 2**.
- TSCA INVENTORY ITEM: N/A

CANADA REGULATORY INFORMATION

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

SECTION 16 - Other Information

DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

WARRANTY

• The above information is believed to be correct but does no purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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