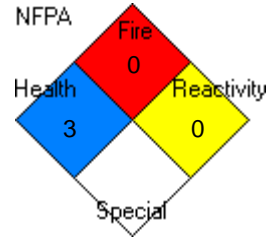


MSDS - Material Safety Data Sheet**Product Name: Tannin****MSDS No.: 175****I. Basic Information:**

Manufacturer: The Ramsey Company
Address: 120 Bartlett Street
City, ST Zip: Marlborough, MA 01752

**Last Update:**

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture

3	Health
0	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients:

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SARA SUB Z 313	OSHA PEL	ACGIH TLV	Other Limits
7647010	Hydrochloric acid	1-2%							
1333831	Sodium bifluoride	.5-1%							

III. Hazardous Identification:**Hazard Category:**

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

NA

IV. First Aid Measures:**Route(s) of Entry:**

Eyes, ingestion, inhalation, skin.

Health Hazards (Acute and Chronic):

NA

Signs and Symptoms:

Direct contact of product with eyes and skin may cause burns. Ingestion may cause burns to mouth, throat, and stomach and fluoride poisoning. Inhalation of mist may irritate respiratory tract. Pre-existing eye, skin, and respiratory disorders may be aggravated.

Medical Conditions Generally Aggravated by Exposure:

None know.

Emergency and First Aid Procedures:

Inhalation-Remove to fresh air. Call physician if symptoms persist. Eyes-Flush with water for at least 15 minutes. Call physician. Skin-Flush with water. Call physician if irritation persists. Ingestion-Drink large quantities of water. Do not induce vomiting. Call physician. Never give anything by mouth to an unconscious person.

Other Health Warnings:

NA

MSDS - Material Safety Data Sheet

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MSDS No.: 175

V. Fire Fighting Measures:

Flash Point: >200F **Lower Explosive Limit:** NA **Upper Explosive Limit:** NA
Fire Extinguishing Media: NA

Special Fire Fighting Procedures:

Do not enter confined fire space without proper protective equipment including NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion:

Hydrochloric acid will attack most metals with production of potentially explosive hydrogen.

VI. Accidental Release Measures:

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

Before attempting clean-up refer to Hazard Data above. Use non-metallic implements to collect material for proper disposal. Rinse area with water. (Soda ash or lime may be used to neutralize.)

VII. Handling and Storage:

Precautions to be Taken:

Use good personal hygiene practice. Wash contaminated clothing and equipment before reuse.

Other Precautions:

NA

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

None required if good ventilation is maintained.

Personal Protective Equipment:

When hand contact is possible, wear rubber or other impervious gloves.

IX. Physical and Chemical Properties:

Boiling Point: 212F **Melting Point:** NA **Evaporation Rate:** NA
Vapor Pressure (mm Hg.): ND **Vapor Density (AIR = 1):** ND
Solubility In Water: Complete
Appearance and Odor: Clear white odorless liquid.
Other Information: NA

X. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Oxidizing agents, metals, alkalies.

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Decomposition/By Products:

Chlorine, fluoride.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information:

Not determined.

XII. Ecological Information:

Not determined.

XIII. Disposal Considerations:

Dispose of this material in accordance with federal, state, and local regulations.

XIV. Transport Information:

Compound, cleaning, liquid (containing hydrochloric acid), corrosive material, NA1789

XV. Regulatory Information:

SARA TITLE III Section 313 and 40 CFR Part 32 Notification: 2-Butoxy ethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 under the chemical category Glycol Ethers.

XVI. Other Information:

NA

EMERGENCY TELEPHONE NUMBER 800-228-5636 EXT. 118

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