

The Butler Corporation

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HAZARD RATING HMIS

Health = 2, Flammability = 0, Reactivity = 1
 (Index: 4 = very high, 3 = high, 2 = moderate
 1 = slight, 0 = insignificant)

Material Safety Data Sheet**I. General Information**

Trade Name & Synonym Rust Remover plus	Chemical Family Inorganic salt mixture	
Chemical Name & Synonym Mixture	Date prepared Jan. 1996	Prepared by Aziz Ullah Ph.D.

II. Ingredients

Water, Neutralized fluoride salts, Surfactant

III. Physical Properties

Boiling Point

Approx. 212°F

Specific Gravity(Water=1)

1.025

Vapor Pressure(mm Hg.)

ND

Melting Point

Approx 32°F

Vapor Density(AIR=1)

>1

Evaporation Rate (Butyl Acetate=1)

>1

Solubility in Water

Soluble

Appearance and odor

Water white liquid/no odor

pH (Liquid as is)

Acidic

IV. Fire and Explosion Hazard Data

Flash Point (TOC)

NA

Flammable Limits

NA

LEL

UEL

NA

Extinguishing Media

Foam, CO₂, Dry Chemical, Water Fog

Special Fire Fighting Procedures

Usual Fire fighting procedures can be used

Unusual Fire and Explosion Hazards

None Known

V. Reactivity Data

Stability

Unstable

X

Conditions to avoid

High temperatures over 125°F/alkaline materials

Stable

Incompatibility (Materials to avoid)

Glass, oxidizing agents, Alkalis

Hazard Decomposition or Byproducts

Material can decompose to form HF acid with water

Hazardous

May occur

Conditions to avoid

Polymerization

Will not occur

X

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VI. Health Hazard Data

Routes of Entry	Inhalation	Skin	Ingestion	Eyes
	Yes	No	Yes	

Health Hazards
Irritating to eyes nose and throat.

Signs and Symptoms of Exposure
Irritation discomfort

Medical Conditions Aggravated by Exposure
None Known

Emergency and First Aid Procedures
Move to fresh air . If contacted flush Thoroughly with water If irritation persists see physician if ingested drink milk or water see physician

VII. Precautions for Safe Handling and Use
Steps to be Taken in Case Material is Released or Spilled
Flush with water.

Waste Disposal Method
Check with federal state or local regulations, waste may be discharged into sanitary sewer as non -hazardous waste if regulations permit

Precautions to be taken in Handling and Storing
Store in a cool place. Avoid breathing vapor keep away from eyes and repeated or prolonged contact with skin

Other Precautions
Keep away from glass

VIII. Control Measures
Respiratory Protection

Ventilation	Local Exhaust	Special
<u>Provide ventilation</u>		
	<u>Mechanical</u>	<u>Other</u>
		<u>X</u>

Protective Gloves	Eye Protection
<u>For repeated contact impermeable gloves suggested</u>	<u>Monogoggles suggested</u>

Other Protective Clothing or Equipment
Avoid breathing vapor

Work/Hygienic Practices
Wash after handling Keep out of reach of children

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