

The Butler Corporation

251 Moody Street
 Ludlow, Massachusetts 01056
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HAZARD RATING HMIS

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

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

Trade Name & Synonym		Chemical Family
Browning Removal Formula		Bisulfites/Reducing agent
Chemical Name & Synonym	Date prepared	Prepared by
Mixture	Oct. 1994	Aziz Ullah Ph.D.

II. Ingredients

Water, Sodium metabisulfite, Surfactants.

III. Physical Properties

Boiling Point	Specific Gravity(Water = 1)
Approx 212° F	1.025
Vapor Pressure(mm Hg.)	Melting Point
ND	Approx 32° F
Vapor Density(AIR = 1)	Evaporation Rate (Butyl Acetate = 1)
>1	>1
Solubility in Water	Appearance and odor
Soluble	Water white liquid/pungent odor
pH (Liquid as is)	
3.4-4.5	

IV. Fire and Explosion Hazard Data

Flash Point (TOC)	Flammable Limits	LEL	UEL
NA	NA		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	Conditions to avoid
	X	High temperatures over 125°F/alkaline materials
	Stable	

Incompatibility (Materials to avoid)

oxidizing agents

Hazard Decomposition or Byproducts

Sulfur Dioxide

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	No	

Yes _____

Health Hazards

Irritating to eyes nose and throat, Some Asthmatics may show hypersensitivity

Signs and Symptoms of Exposure

Irritation discomfort

Medical Conditions Aggravated by Exposure

Asthma

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, (Non-Hazardous waste)

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

NA

VIII. Control Measures

Respiratory Protection

Ventilation

Ventilation	Local Exhaust	Special
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Provide ventilation

Mechanical	X	Other
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Protective Gloves

For repeated contact impermeable gloves suggested

Eye Protection

Monogoggles suggested

Other Protective Clothing or Equipment

Avoid breathing vapor TLV/TWA(ACGIH) 5ppm

Work/Hygienic Practices

Wash after handling Keep out of reach of children

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