

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 Reducing agent	Chemical Family Bisulfites	
Chemical Name & Synonym Mixture	Date prepared Jan. 1996	Prepared by Aziz Ullah Ph.D.

II. Ingredients

sodium bisulfite anhydrous

III Physical Properties**Boiling Point**

N/A

Specific Gravity(Water=1)

1.48

Vapor Pressure(mm Hg.)

ND

Melting Point

decomposes

Vapor Density(AIR=1)

>1

Evaporation Rate (Butyl Acetate=1)

>1

Solubility in Water

Soluble

Appearance and odor

white powder/pungent odor

pH 1% solution

3.4-4.5

IV. Fire and Explosion Hazard Data**Flash Point (TOC)**

ND

Flammable Limits

ND

LEL

ND

UEL

ND

Extinguishing MediaFoam, 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

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	Yes	Yes

Health Hazards

Irritating to eyes nose and throat, Some Asthmatics may show hypersensitivity and should be excluded from exposure

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**

Provide ventilation

Mechanical **X** **Other**

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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