



## DIMMITT SULFUR PRODUCTS

### ***DIMMITT SULFUR PRODUCTS, LTD.***

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### **TECHNICAL BULLETIN** **MAGNESIUM BISULFITE, 26% SOLUTION** **FOOD GRADE**

#### **IDENTIFICATION**

Name of product:	Magnesium Bisulfite, Aqueous Solution
Synonyms:	Magnesium Hydrogen sulfite
Formula:	$Mg(HSO_3)_2$
Molecular Weight:	186
C.A.S. No.:	13774-25-9

#### **SHIPPING INFORMATION**

DOT ID No.:	UN 2693
DOT Classification:	Corrosive
Packing Group:	III
Shipping Name:	Bisulfites, Aqueous Solutions, n.o.s. (MAGNESIUM BISULFITE)
Containers:	tank car, tank truck and drums

#### **TYPICAL ANALYSIS**

Appearance and odor:	Pale green, clear liquid, pungent sulfur dioxide odor
Assay %, as $Mg(HSO_3)_2$ :	24 - 27
pH @ 1% solution:	2.5 - 3.0
Specific Gravity @ 60°F:	1.20 - 1.25
Density @ 60°F, lbs/gallon:	10.20 - 10.25
Ratio:	2.70-2.75 S02 TO 1.00MG
Magnesium as Mg % by wt.:	3.92 approximate
Sulfur Dioxide % by wt.:	10.7 approximate
Iron as Fe, ppm:	5 max
Heavy Metals as Pb, ppm:	Less than 10 max
Arsenic as As, ppm:	Less than 3
Selenium as Se, ppm:	Less than 30 ppm

#### **APPLICATIONS**

Enzymatic production of fructose  
Reducing agent  
Antioxidant  
Bacteriostat

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