



DIMMITT SULFUR PRODUCTS

DIMMITT SULFUR PRODUCTS, LTD.

PO BOX 1008

DIMMITT, TX 79027

Telephone (806) 647-2121 Fax (806) 647-2126

TECHNICAL BULLETIN
AMMONIUM BISULFITE, 50% SOLUTION

IDENTIFICATION:

Name of product:	Ammonium Bisulfite, aqueous solution
Synonyms:	Ammonium Hydrogen sulfite
Formula:	NH_4HSO_3
Molecular Weight	99.1
C.A.S. No.	10192-30-0

SHIPPING INFORMATION:

DOT ID No.	UN 2693
DOT Classification	Corrosive
Packing Group	III
Shipping Name	Bisulfites, aqueous solutions, n.o.s.
Containers	tank car, tank truck and drums

TYPICAL ANALYSIS:

Appearance and odor	Pale yellow, clear liquid, Pungent sulfur dioxide odor
Assay, % as NH_4HSO_3	48.0-52.0
pH	4.5 – 5.0
Specific Gravity @ 70°F	1.260-1.280
Density @ 70°F, lbs/gallon	10.5 – 10.67
Iron as Fe, ppm	<5
Heavy Metals as Pb, ppm	Less than 10

PROPERTIES

- is soluble in water, methanol and ethylene glycol.
- is insoluble in aromatic or aliphatic solvents.
- is corrosive to steel, aluminum, and admiralty metals.
- releases Sulfur Dioxide when heated.

MARKETS AND USES:

- Photographic Processing
- Manufacturing of chemicals
- Enhanced oil recovery
- Sugar refining
- Oxygen scavenging for oilfield and water treatment
- Mining

NOTICE: THE DATA AND INFORMATION IN THIS BULLETIN ARE TO THE BEST OF DIMMITT SULFUR PRODUCT'S KNOWLEDGE COMPLETE, ACCURATE AND CORRECT. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, ARE MADE BY DIMMITT SULFUR PRODUCTS, LTD. AS TO SUCH DATA AND INFORMATION OR THAT THE GOODS MENTIONED HEREIN ARE SUITABLE FOR ANY PARTICULAR PURPOSE OR MERCHANTABLE, OR THAT SUCH GOODS ARE FREE FROM ANY PATENT INFRINGEMENT. PURCHASERS SHOULD SATISFY THEMSELVES OF THE SUITABILITY OF ANY SUCH GOODS FOR THE PURPOSE INTENDED PRIOR TO PURCHASE. THE USER SHOULD NOT ASSUME THAT ALL SAFETY MEASURES ARE INDICATED OR THAT OTHER MEASURES MAY NOT BE REQUIRED.



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TECHNICAL BULLETIN **AMMONIUM BISULFITE, 60% SOLUTION**

IDENTIFICATION:

Name of product:	Ammonium Bisulfite, aqueous solution
Synonyms:	Ammonium Hydrogen sulfite
Formula:	NH_4HSO_3
Molecular Weight	99.1
C.A.S. No.	10192-30-0

SHIPPING INFORMATION:

DOT ID No.	UN 2693
DOT Classification	Corrosive
Packing Group	III
Shipping Name	Bisulfites, aqueous solutions, n.o.s.
Containers	tank car, tank truck and drums

TYPICAL ANALYSIS:

Appearance and odor	Pale yellow, clear liquid, Pungent sulfur dioxide odor
Assay, % as NH_4HSO_3	58.0-62.0
pH	4.5 – 5.5
Specific Gravity @ 70°F	1.31 – 1.35
Density @ 70°F, lbs/gallon	11.00 – 11.25
Iron as Fe, ppm	<5
Heavy Metals as Pb, ppm	Less than 10

PROPERTIES

- is soluble in water, methanol and ethylene glycol.
- is insoluble in aromatic or aliphatic solvents.
- is corrosive to steel, aluminum, and admiralty metals.
- releases Sulfur Dioxide when heated.

MARKETS AND USES:

- Photographic Processing
- Manufacturing of chemicals
- Enhanced oil recovery
- Sugar refining
- Oxygen scavenging for oilfield and water treatment
- Mining

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TECHNICAL BULLETIN **AMMONIUM BISULPHITE, 62% SOLUTION**

IDENTIFICATION:

Name of product	Ammonium bisulphite, aqueous solution
Synonyms	Ammonium hydrogen sulphite
Formula	NH_4HSO_3
Molecular Weight	99.1
C.A.S. Number	10192-30-0

SHIPPING INFORMATION:

DOT ID Number	UN 2693
DOT Classification	Corrosive
Packing Group	III
Shipping Name	Bisulphites, aqueous solutions, n.o.s.
Containers	Tank car, tank truck and drums

TYPICAL ANALYSIS:

Appearance and odor	Pale yellow, clear liquid; pungent sulfur dioxide odor
Assay, % as NH_4HSO_3	61.5 - 63.5
pH	4.5 - 5.5
Specific gravity @ 25° C	1.338 - 1.360
Density @ 25° C, lbs/gallon	11.15 - 11.33
Iron, as Fe - ppm	Less than 5
Heavy metals, as Pb - ppm	Less than 10

PROPERTIES:

- is soluble in water, methanol and ethylene glycol.
- is insoluble in aromatic or aliphatic solvents.
- is corrosive to steel, aluminum, and admiralty metals.
- releases sulfur dioxide when heated.

MARKETS AND USES:

- Photographic processing
- Manufacturing of chemicals
- Enhanced oil recovery
- Sugar refining
- Oxygen scavenging for oilfield and water treatment
- Mining

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TECHNICAL BULLETIN **AMMONIUM BISULFITE, 65% SOLUTION**

IDENTIFICATION:

Name of product:	Ammonium Bisulfite, aqueous solution
Synonyms:	Ammonium Hydrogen sulfite
Formula:	NH_4HSO_3
Molecular Weight	99.1
C.A.S. No.	10192-30-0

SHIPPING INFORMATION:

DOT ID No.	UN 2693
DOT Classification	Corrosive
Packing Group	III
Shipping Name	Bisulfites, aqueous solutions, n.o.s.
Containers	tank car, tank truck and drums

TYPICAL ANALYSIS:

Appearance and odor	Pale yellow, clear liquid, Pungent sulfur dioxide odor
Assay %, as NH_4HSO_3	63.0-67.0
pH	4.5 – 5.5
Specific Gravity @ 70°F	1.35 – 1.38
Density @ 70°F, lbs/gal	11.26 – 11.80
Iron as Fe, ppm	<5
Heavy Metals as Pb, ppm	Less than 10

PROPERTIES

- is soluble in water, methanol and ethylene glycol.
- is insoluble in aromatic or aliphatic solvents.
- is corrosive to steel, aluminum, and admiralty metals.
- releases Sulfur Dioxide when heated.

MARKETS AND USES:

- Photographic Processing
- Manufacturing of chemicals
- Enhanced oil recovery
- Sugar refining
- Oxygen scavenging for oilfield and water treatment
- Mining

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TECHNICAL BULLETIN **AMMONIUM BISULFITE, 70% SOLUTION**

IDENTIFICATION:

Name of product:	Ammonium Bisulfite, aqueous solution
Synonyms:	Ammonium Hydrogen sulfite
Formula:	NH ₄ HSO ₃
Molecular Weight	99.1
C.A.S. No.	10192-30-0

SHIPPING INFORMATION:

DOT ID No.	UN 2693
DOT Classification	Corrosive
Packing Group	III
Shipping Name	Bisulfites, aqueous solutions, n.o.s.
Containers	tank car, tank truck and drums

TYPICAL ANALYSIS:

Appearance and odor	Pale yellow, clear liquid, Pungent sulfur dioxide odor
Assay %, as NH ₄ HSO ₃	68.0-72.0
pH	4.5 – 5.5
Specific Gravity @ 70°F	1.375 – 1.41
Density @ 70°F, lbs/gallon	11.47 – 11.63
Iron as Fe, ppm	Less than 5
Heavy Metals as Pb, ppm	Less than 10

PROPERTIES

- is soluble in water, methanol and ethylene glycol.
- is insoluble in aromatic or aliphatic solvents.
- is corrosive to steel, aluminum, and admiralty metals.
- releases Sulfur Dioxide when heated.

MARKETS AND USES:

- Photographic Processing
- Manufacturing of chemicals
- Enhanced oil recovery
- Sugar refining
- Oxygen scavenging for oilfield and water treatment
- Mining

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