



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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