

MIXED ACID

Technical
Information



Industrial Grade

Product Description

MIXED ACID is a blend of strong nitric acid (98%) and oleum (sulfuric acid saturated with sulfur trioxide) that is designed as a nitrating reagent for industrial nitration processes. Its most common use is in the manufacture of nitroglycerin and similar nitrate esters for explosives and propellants.

Application Recommendations

- MIXED ACID is a strong oxidizing agent and reacts violently with oxidizable organic substances to the point that ignition can occur with the higher concentrations of this acid. This chemical is used for nitration of organics for the production in plastics, surface coatings, dyes, pesticides and explosives.

Transportation, Storage and Handling

- MIXED ACID is highly corrosive to human tissue.
- ALWAYS** wear liquid impervious clothing, gloves and boots.
- ALWAYS** protect eyes and face with shield when loading.
- MIXED ACID has a high vapor pressure and begins to vaporize into a white fume at warm ambient temperatures. Breathing high concentrations of the fume can cause severe respiratory problems.
- NEVER** use MIXED ACID as a substitute where mineral acids are typically used.

Properties

SDS
#1026

	Specification
Sulfuric Acid %	49.5 - 51.00
Nitric Acid %	50.00 - 52.00
Water %	(-2.00) - (-1.00)
Nitrosyl %	.50 Max
D.V.S.	4.30 - 4.40
Iron* (ppm) <small>Vendor may certify conformance to this requirement.</small>	50.0 Max
Turbidity (NTU) <small>Vendor may certify conformance to this requirement.</small>	100 Max

Hazardous Shipping Description

- MIXED ACID solutions are placarded corrosive and are transported under a hazard classification 8.
- The shipment will be marked with international transportation number UN 1796 which may be incorporated into the placard.
- Consult MSDS #1026 for more specific and comprehensive information about chemical hazards.



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NC-18-08-18-15

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