

## Technical Data Sheet

<b>Product</b>	A safe yet highly effective alternative to traditional HCl/HF blends used for dissolving drilling muds (bentonite) as well as for dissolving silicate materials such as cement, feldspars and shales.	
<b>Applications</b>	<p>Safe Acid MUD 12-3 is a safe alternative to HCl/hydrofluoric acid for use in the treatment of sandstone formations. Safe Acid MUD 12-3 is less corrosive to metals than typical HCl/HF blends and does not cause irritation to skin. This specialized blend of corrosion inhibitors, surfactants, and environmentally friendly additives is non-regulated by the US DOT and Canadian TDG. Additionally, Safe Acid MUD 12-3:</p> <ul style="list-style-type: none"> <li>• May be used in well treatment applications and other applications where silicate and clay buildups may be present</li> <li>• Reduces need for inhibitor additives to protect well casings</li> <li>• Requires no special handling</li> <li>• Odorless formulation</li> <li>• Biodegrades within 10 days</li> <li>• Safe to use on most metals with superior compatibility profile</li> </ul>	
<b>Properties</b>	Safe Acid MUD 12-3 is a well treatment formulation that also contains iron control agents and demulsifiers.	
<b>Chemical Composition</b>	Proprietary/Trade Secret	
	Refractive Index (% wt.)	34-36%
<b>Physical Properties</b>	Density 20°C (68°F), (g/ml)	1.13
	pH, 20°C (68°F)	<1
	Flash Point	None
	Freezing Point	< -32°C (< -25°F)
	Solubility in water	100%
	Odor	None
<b>Appearance</b>	Yellow liquid	
<b>Storage</b>	Keep container closed when not using. Store in dry areas with ambient temperatures.	
<b>Packaging</b>	265 gal (2491 lb), 320 gal (3017 lb) and Bulk Available in HDPE plastic pails, drums and totes.	
<b>Transport (DOT)</b>	Non-regulated by the US DOT or Canadian TDG	

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