

MDEA-LHS

**Solvent for
Selective
H₂S Removal**



Absorb H₂S down to levels 5-10 times lower than with plain MDEA

MDEA-LHS from ATOFINA Chemicals is a formulated product based on methyldiethanolamine (MDEA). It is designed for TGTU applications or other amine units requiring enhanced H₂S removal capabilities.

MDEA-LHS contains unique additives that modify the MDEA-H₂S bond in a way that allows more efficient and complete H₂S absorption and solvent regeneration. The net result is that H₂S is absorbed down to levels 5-10 times lower than with plain MDEA.

Applications

- Tail Gas Treating Units (TGTU)
- Refinery Systems
- Natural Gas Treating

Advantages

- Enhanced H₂S Absorption
- Reduced H₂S Emissions
- Selective Removal of H₂S over CO₂
- Reduced/Eliminated Corrosion
- Reduced Foaming and Solvent Losses

See reverse side for more details.



MDEA-LHS

Solvent for Selective H₂S Removal

Reduced emissions

MDEA-LHS can achieve 10ppm H₂S in tail gas units and eliminate the need for incineration of the absorber off gas. Other applications include those having higher absorber temperatures and lower pressures where H₂S removal is more difficult, or where process or equipment limitations cause off-spec performance.

Decreased corrosion

MDEA-LHS contains no acidic ingredients; therefore it is less corrosive than other MDEA products that offer enhanced H₂S absorption. Less corrosion means less equipment fouling and filter plugging.

Full compatibility

MDEA-LHS is fully compatible with other MDEA products and can be used in equipment designed for MDEA and other amines.

Selective Removal of H₂S over CO₂

Of all amines currently used by the gas treating industry, MDEA is the most selective for H₂S. MDEA does not react with CO₂ to form a stable carbamate.

Expert service

As a global international chemical company with facilities in every industrialized region around the world, Arkema has been supplying refineries with chemical products and processing aids for decades. MDEA-LHS is the latest example of how we continually improve and implement a simple, yet effective approach to gas treating systems.

Arkema can provide all the technical knowledge and assistance you need to take advantage of MDEA-LHS. Allow us to demonstrate how our products and services can solve your toughest challenge. For more information contact Arkema.

Phone: 1.800.628.4453
fax: 215.419.7944
www.e-OrganicChemicals.com

Arkema has not conducted a full and complete evaluation of your current or proposed operations. You should not rely solely upon the information and/or recommendations set forth in this bulletin, but rather should conduct your own routine evaluation and analysis of your current or proposed operations. Arkema disclaims any and all responsibility for occurrences which may arise from your failure to implement the recommendations set forth herein. Arkema further disclaims any and all responsibility for any occurrence arising out of your decision to modify or amend any recommendations set forth herein. Arkema does not warrant or guarantee that implementation of any recommendations set forth herein constitute compliance with any federal, state or local laws or regulations.

© 2001 Arkema Inc.



Arkema Inc. • 2000 Market St. • Philadelphia, PA 19103 • Phone: 800-628-4453 • Fax: 215-419-7944 • e-OrganicChemicals.com

Canada: 700 Third Line • Oakville, Ontario L6J5A3 • Phone: 905-827-9841 • Fax: 905-827-7913

France: 4 Cours Michelet • La Defense 10 Cedex 42 • 92091 Paris, La Defense, France • Phone: (33) 1-4900-8080 • Fax: (33) 1-4900-7447

Brazil: Av. Ibirapuera, 2033 • 04029 901 - Sao Paulo - SP • Phone: (11) 5056-8586 • Fax: (11) 5051-4780

Mexico: Rio San Javier #10 Fracc. • Viveros del Rio • Tlalhepantla 54060, Edo. de Mexico • Phone: (5) 366-4000 • Fax: (5) 362-4894

Venezuela: Av. Calle La Guairita • Edif. Los Frailes • Piso 4° • Urbanización Chuao • Caracas 1061 - Venezuela • Phone: (212) 933-4484 • Fax: (212) 991-3120