

## Neutralizing amine Hercules 54505

**Description:**

Hercules 54505 is a neutralizing amine mixture which is soluble – Grade A in an aromatic solvent, and Grade B in an aqueous solution.

Hercules 54505 is designed to neutralize hydrochloric acid in vapor phase of overhead stream in Oil Refinery. It works like ammonia, however it doesn't produce the deposits like ammonia chloride. The byproduct of Hercules 54505 reacting with hydrochloric acid are removed from the system with the water phase stream.

The neutralizer has high neutralizing capacities which allows to maintain a stable level of pH in drainage water at narrow limits of 5,5 - 6,5. The neutralization products do not generate sediment on the metal surface.

**Dosage:**

The dosage rates of Hercules 54505 are based on some certain conditions of crude oil desalting process in distillation unit. Those rates can be from 3 g/t to 20 g/t per overhead hydrocarbon stream.

The neutralizing amine should be injected using a dosage pump.

**Application:**

The neutralizer «Hercules 54505» is injected continuously into the overhead line before the water vapor phase dew point. The aim of use is to maintain pH level in the overhead stream in the range of 5,5-6,5. It is recommended for use with corrosion inhibitor Hercules 30617.

**Solubility:**

The solubility depends on the certain grade of Hercules 54505 as it is specified in description.

It is recommended to inject «Hercules 54505» as an aqueous solution (Grade B) or as hydrocarbon solution (Grade A).

<b>Physical chemical data:</b>	Grade A	Grade B
Appearance:	Homogenous clear liquid. Colorless to amber.	
Density at 20°C, kg/m <sup>3</sup> :	850 – 890	970 – 990
Pour point, °C, not above	- 40	- 30

**Safety data:**

SDS for Hercules 54505 is available upon request.

**Packaging:**

Hercules 54505 is supplied in bulk and in steel drums of 216 L.

Date of issue: MAY, 2014.