



## PRODUCT DATA SHEET

### DESULFURIZATION MERKAZ (Liquid Type)

#### Manufacturer

Caspian Chemistry Free Zone Co.

Anzali Free Zone, Iran

#### Product Identification

**Product Name:** DESULFURIZATION MERKAZ

**Physical Form:** Liquid

**Product Type:** Liquid Mercaptan Oxidation Catalyst / Sweetening Chemical

**Process Type:** Liquid-Phase Desulfurization

#### Product Description

DESULFURIZATION MERKAZ (Liquid Type) is a proprietary liquid catalytic formulation designed for the **oxidation and removal of mercaptans (R-SH)** from hydrocarbon streams.

The product is used in **liquid-phase sweetening processes**, typically in the presence of alkaline solution and controlled air or oxygen injection.

MERKAZ promotes the conversion of mercaptans into disulfides, thereby significantly reducing sulfur content, corrosivity, and odor of treated hydrocarbons.

#### Typical Technical Specifications

Parameter	Typical Value
Appearance	Clear to dark brown liquid
Odor	Characteristic
Density (20°C)	1.05 – 1.15 g/cm <sup>3</sup>
Solubility	Soluble in alkaline aqueous solutions



Parameter	Typical Value
pH (as supplied)	Alkaline
Active Metal Content	Proprietary
Flash Point	> 60 °C
Operating Temperature	Ambient to 80 °C
Operating Phase	Liquid

*Typical values are provided for reference only and do not constitute a product guarantee.*

### Key Features & Benefits

- High efficiency mercaptan oxidation
- Liquid form ensures uniform distribution in process streams
- Compatible with caustic sweetening systems
- Reduces mercaptan sulfur to trace levels (process-dependent)
- Improves product odor and corrosion control
- Stable performance under refinery operating conditions

### Applications

DESULFURIZATION MERKAZ (Liquid Type) is suitable for:

- LPG sweetening units
- Condensate and light hydrocarbon treatment
- Naphtha and gasoline mercaptan removal
- Refinery caustic sweetening systems
- Gas plant liquid-phase desulfurization units



## Handling & Storage

- Store in tightly closed containers
- Keep in a cool, dry, and well-ventilated area
- Avoid contamination with acids
- Prevent prolonged exposure to direct sunlight

## Safety Information

- For industrial use only
- Avoid direct contact with skin and eyes
- Avoid inhalation of vapors or mist
- Use appropriate personal protective equipment (PPE)
- Refer to Safety Data Sheet (SDS) for detailed safety instructions

## Packaging

- 200 kg HDPE or steel drums
- 1,000 kg IBC tanks
- Bulk supply available upon request

## Shelf Life

- **12–24 months** from date of manufacture under recommended storage conditions

## Regulatory Compliance

Manufactured in accordance with applicable industrial chemical regulations.

Detailed technical and regulatory documentation available upon request.



## Disclaimer

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