

## RAMSOL HD

### HEAVY-DUTY SOLVENT CLEANER

**RAMSOL HD** is a heavy-duty solvent degreaser designed for dispersing heavy hydrocarbon sludge, foulant and asphaltenes as well as for removing hydrogen sulphide in an oil phase trapped in lines, vessels and other refinery equipment.

### FEATURES & BENEFITS

- Contains oil-soluble sulphide scavenger
- Powerful and fast acting
- Safe on all hard metal surfaces
- Can be stored outdoors
- When used in catalyst units, residual product will not contaminate or poison unit



### DIRECTIONS FOR USE

#### Soils to be removed

Tars, lubricating oils, bitumen residue, heavy oils, asphaltic materials, hydrogen sulfide contamination, etc.

#### Use procedure

For use in chemical cleaning or circulation procedures requiring the use of light gas oil, nitrogen or with systems that cannot tolerate the use of water, steam, etc.  
It can also be emulsified in water to customize foulant and H<sub>2</sub>S removal in other systems.  
For H<sub>2</sub>S removal, typically 1L/m<sup>3</sup> will treat 15 mg/L of H<sub>2</sub>S in the system.

#### Concentration

Most effective when used undiluted.  
Dilute to 2-5% v/v when used as part of a LGO or nitrogen purge cleaning procedure.

#### Dwell time/Operation time

Use according to the amount and depth of foulant and concentration of hydrogen sulphide.  
For ideal treatment, proper mixing and temperatures below 170°C preferred.

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## PHYSICAL PROPERTIES

Appearance	Clear, colorless liquid
Odour	Solvent
Specific gravity @ 20°C	0.95
Viscosity	Not available
pH	Not applicable
Flash point (TCC)	41°C (105.8°F)
Water solubility	Emulsifies
Boiling point	Not available
Freezing point	Not available
Foaming tendency	Non-foaming
Rinsing	Excellent
Concentration monitoring techniques	Not available

## INCOMPATIBILITY

Strong oxidizing materials, acids

## WAREHOUSING PRECAUTIONS

Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place

## AVAILABLE SIZES

		
20L	205L	1000L

## IMPORTANT

Before using **RAMSOL HD** always be sure to read and follow precautions and directions for use appearing on the product's container label, and on the safety data sheet (S.D.S).

## FIRST AID MEASURES

### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## PERSONAL PROTECTION



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