

# TECHNICAL DATA SHEET

## TURKEY RED OIL (35% to 85%)

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INTERMEDIATES

### DESCRIPTION

Turkey Red Oil is also known as Sulfated Castor Oil or more commonly as Sulphonated Castor Oil. It is a unique and essential industrial oil, historically significant for being considered the first synthetic detergent. It is one of the few oils that will completely disperse in water, a property achieved when sulfuric acid is added to castor oil, which is expressed from the Castor seeds. The finished product has a distinct and heavy scent and is of medium viscosity. As a powerful surfactant, it forms the basis for its widespread utility.



### TECHNICAL DATA

Property	Value
Appearance	Amber coloured viscous liquid
Strength	35% to 85%
Melting point	<0 C
Boiling point	>150 C
Solubility	Miscible in Water
Specific gravity	1.01 to 1.06
Degree of sulphonation	4 (Min.)
pH	6.3 to 7.5

### GRADES



PHENYL GRADE



TEXTILE GRADE



LEATHER GRADE



METAL CUTTING GRADE



DISTILLERY GRADE

### APPLICATIONS

- Used in bath oil recipes along with fragrance or essential oils, or in shampoos. This oil also has great moisturizing abilities.
- Used to emulsify essential oils so that they will dissolve in other water-based products.
- Used extensively in the textile industry as surfactants and wetting agents in dyeing and finishing processes.
- Used in the paper industry for defoaming, in cosmetics as emulsifiers, in pharmaceuticals as undecylenate, and in paints and inks as lubricants.

