

TECHNICAL DATA SHEET (TDS)
CASTOR OIL
(*Ricinus Communis* Seed Oil)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Castor Oil
INCI Name	<i>Ricinus Communis</i> Seed Oil
Botanical Name	<i>Ricinus communis</i> L.
CAS Number	8001-79-4
EINECS No.	232-293-8
Description	100% Pure and Natural fixed oil obtained by cold pressing or solvent extraction of the seeds of <i>Ricinus communis</i> L. (Euphorbiaceae).

2. TECHNICAL & SENSORY PROPERTIES

Appearance	Clear, viscous liquid
Colour	Colourless to pale yellow
Odour	Practically odourless or very mild characteristic odour
Refractive Index (20°C)	1.4770 – 1.4810
Specific Gravity (30°/30°C)	0.954 – 0.960
Saponification Value	177 – 187 mg KOH/g
Iodine Value	82 – 90 (Wijs)
Acid Value	Max. 4.0 mg KOH/g
Unsaponifiable Matter	Max. 1.0%

Acetyl Value	Min. 143
Moisture Content	Max. 0.5%
Insoluble Impurities	Max. 0.25%
Main Fatty Acid Composition	Ricinoleic acid (approx. 85–90%), Oleic acid, Linoleic acid, Palmitic acid, Stearic acid

3. APPLICATIONS & USES

Cosmetics & Personal Care	Used in skincare formulations for its emollient and moisturizing properties. Common in lipsticks, creams, lotions, and hair care products.
Pharmaceutical	Used as a laxative (stimulant laxative) and in various topical medicinal preparations.
Industrial	Used as a raw material for the production of sebacic acid, undecylenic acid, and other derivatives. Used in lubricants, hydraulic fluids, paints, and coatings.
Rubber & Polymer Industry	Castor oil and its derivatives are used as plasticizers and processing aids in rubber compounds.

4. STORAGE, PACKAGING & SAFETY

Storage Conditions	Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and direct sunlight.
Packaging	25 kg HDPE Drums, 200 kg Steel Drums, IBC Totes, ISO Tank Containers.
Shelf Life	24 months when stored properly in unopened original containers.
Safety & Handling	Avoid contact with eyes. Handle in well-ventilated areas. Wear protective gloves and eye protection.

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