

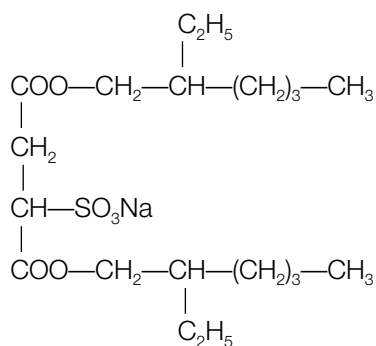
# DOCUSATE SODIUM U.S.P.

## DSS

Docusate Sodium U.S.P. enjoys the distinction of being one of the most versatile and effective of the currently available surfactants (surface active agents.) It has a multiplicity of applications, particularly in the pharmaceutical, food and cosmetic industries.

Composition - It is the dioctyl ester of sodium sulfosuccinate

(bis-2-ethylhexyl sodium sulfosuccinate).



Mol. Form.  $\text{C}_{20}\text{H}_{37}\text{NaO}_7\text{S}$  Mol. Wt. 444.57

### Typical Properties

Appearance	Rolls of white waxlike plastic sheets, which may have a characteristic odor of octyl alcohol only.
Clarity of solution after 24 hours	Meets test.
Identification	Infrared-positive Flame test-positive
Assay	99.0% to 100.5% on anhydrous basis
Water (K.F. method)	Not more than 2.0%
Residue on ignition	15.5% to 16.5% on anhydrous basis
Arsenic (as $\text{As}_2\text{O}_3$ )	Not more than 3 ppm.
Heavy metals (as Pb)	Not more than 0.001%
Bis (2-ethylhexyl) maleate	Not more than 0.4%

Docusate Sodium U.S.P. was formerly known as Dioctyl Sodium Sulfosuccinate U.S.P. (DSS).

### Outstanding Advantages

- Excellent wetting, solubilizing, dispersing and emulsifying agent.
- Effective medically in the treatment of constipation.
- Effective in topically applied medical preparations in the form of creams, lotions and ointments.
- Effective as a wetting agent even at relatively low concentrations.

<b>Applications:</b>	<b>Use Levels:</b>
Wetting agent	0.025%-0.25%
Tablet formulations	0.1%-1.0% by weight
Tablet coating formulations	20% typical
Solubilizing agent for dyes, chlorophyll, bile acids.	0.1%-1.0% on weight of material.
Anti-constipation agent. Can be used alone or as an adjuvant with other laxitives.	0.1%-1.0% by weight.
Emulsifying agent for oil and water mixtures.	Amount of DSS required must be determined for each application.
Pharmacology. Used as an ingredient in certain medicaments or as an adjuvant in the manufacture or utilization of others.	Amount of DSS required must be determined for each application.
Dispersing agent for hard-to-wet materials.	Amount of DSS required must be determined for each application.

## Storage

Docusate Sodium should be stored in tightly closed containers at temperatures below 75°F (24°C) with relative humidity of less than 60%. Higher temperatures may cause the material to fuse and discolor.

## Health and Safety Information

Prolonged eye or skin contact may cause irritation. Sodium dioctyl sulfosuccinate has acute oral LD<sub>50</sub> values for the rat and mouse of 1,900-4,000 mg/kg and 2,640 mg/kg, respectively. Acute dermal (rabbit) LD<sub>50</sub> value is greater than 10,000 mg/kg. Read the Cytec Industries Inc. Material Safety Data Sheet on this product, before using, for detailed safety and handling information. The Material Safety Data Sheet is available and is routinely provided at time of first shipment of this product.

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