



ELRASA - DEP™ (Diethyl Phthalate (DEP))

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear, colorless oily liquid
Physical Form	Liquid
Odor	Odorless
Molecular Weight (g/mol)	222.24
Density or Specific Gravity	1.12 at 68 °F
Viscosity	31.3 centistokes at 0 °C
Refractive Index	1.5002 at 25 °C/D
Density	1.12 at 68 °F
Chemical Properties	
Hazardous Reactions	When heated to decomp it emits acrid smoke and irritating fumes.
Thermal Properties	
Melting Point	27 °F
Boiling Point	568 °F at 760 mmHg
Flash Point	284 °F
Autoignition Temperature	855 °F

2. Processing Methods



Perfume

Use at 5-30% as a solvent and fixative to dilute perfume oils, improve stability, and slow down evaporation of volatile notes. Blend with the perfume concentrate before adding alcohol to ensure a uniform, stable solution.

Key Ingredients	Indicative Dosage (% w/w)
Linalool	10%
Benzyl Acetate	10%
Phenylethyl Alcohol	20%
Iso E Super	15%
Hedione	10%
Galaxolide	10%
Musk Ketone	5%
Para Anisic Aldehyde	2%
Cinnamic Alcohol	1%
Diethyl Phthalate (DEP)	17%

Shampoo

Use at 0.1-2%, mainly as a fragrance solvent or fixative to help retain and stabilize scent in the final product. Add during the fragrance phase, ideally at the cool-down stage, to prevent volatility and ensure stability. Pre-mix with fragrance oils to improve solubility and avoid cloudiness or separation in the aqueous shampoo base.

Key Ingredients	Indicative Dosage (% w/w)
Water	63%
Sodium Laureth Sulfate	15%
Cocamidopropyl Betaine	6%
Glycerin	3%
Citric Acid	0.3%
Polyquaternium-10	0.2%
Disodium EDTA	0.1%
Preservative (e.g. Phenoxyethanol)	0.8%
Fragrance blend	~11%
Diethyl Phthalate	0.1%



Soap

Use at 0.2-2% as a solvent or fixative to enhance fragrance longevity and help dissolve essential oils or aromatic compounds. Add during the fragrance phase, when the soap mixture has cooled, to avoid evaporation or degradation.

Key Ingredients	Indicative Dosage (% w/w)
Sodium Palmate	40%
Sodium Palm Kernelate	25%
Water	15%
Glycerin	5%
Sorbitol	5%
Titanium Dioxide	1%
Tetrasodium EDTA	0.1%
BHT	0.2%
Fragrance Blend	~8%
Diethyl Phthalate	0.2%

Cosmetic Lotion

Use at 0.5-2%, primarily as a solvent and fixative to help dissolve and stabilize fragrance components in the lotion. Add during the oil phase or with fragrance during the cool-down stage for better integration and stability.

Key Ingredients	Indicative Dosage (% w/w)
Water	~70%
Glycerin	5%
Cetearyl Alcohol	4%
Caprylic/Capric Triglyceride	5%
Glyceryl Stearate	3%
Dimethicone	2%
Phenoxyethanol	0.8%
Ethylhexylglycerin	0.2%
Carbomer	0.3%
Triethanolamine	0.2%
Tocopherol (Vitamin E)	0.2%
Fragrance Blend	~9%
Diethyl Phthalate	0.8%



3. Dosing by Application

Products	Authorized dosage
Perfume/Fragrance	0.1-30%
Cosmetics/Personal Care	<0.1% - 1%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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