Technical Data Sheet

N-Butyl Acetate Urethane Grade

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Product Description

Normal butyl acetate is an ultra-pure organic clear liquid with the chemical formula $C_6H_{12}O_2$ and a characteristic fruity ester odor. This colorless, flammable solvent is an ester derived from the reaction between n-butanol and acetic acid. The **Urethane Grade** of n-Butyl Acetate is a high-purity solvent with low moisture and acidity, suitable for polyurethane and other moisture-sensitive systems. It provides good resins' solvency, favorable balance between evaporation rate and drying time, and excellent flow and leveling properties.

Application Areas

N-butyl acetate is mainly used as a solvent for coatings and inks, especially as a film-former of polymers, resins, and oils. The "urethane grade" of n-butyl acetate is widely applied in polyurethane (PU) systems, besides nitrocellulose lacquers used in automotive paints as car refinishing by OEMs, wood applications, and home appliances.

Benefits

- Good Solvent Activity
- Low Surface Tension and water solubility
- Medium evaporation rate (volatility)
- High electrical resistance
- Readily biodegradable

Safety, Storage & Shelf Life

N-butyl acetate is a highly flammable liquid. Its vapor produces eye irritation. Smoking must also be prohibited. Containers must be absolutely dry and carefully sealed after being filled with nitrogen at room temperature. Place the container in a well-ventilated area, avoid contact with the eyes, and keep away from inflammables. Under appropriate storage conditions, the shelf life is 12 months.

Product Specification

Property	Unit	Value	Test Method/Standard
Appearance	-	Colorless clear liquid	Visual
Specific Gravity ➢ **20 °C** ➢ **25 °C**	g/cm^3	 0.880 – 0.883 0.876 – 0.879	ASTM D1298
Purity	% Wt.	Min. 99.5	ASTM D3345
Color	Pt-Co (APHA)	Max. 10	ASTM D1209
Refractive Index (20 °C)	-	1.3950 – 1.3955	ASTM D1218
Water content	% Wt.	Max. 0.05	ASTM D1364
Acidity	% Wt.	Max. 0.01	ASTM D4615
Boiling Range (760 mm Hg)	°C	120 – 130	ASTM D1078
Non-Volatile Matter	mg/100mL	Max. 5	ASTM D4615

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