

**Formula:**  $\text{CH}_3(\text{CH}_2)_5\text{Li}$ **Appearance:** Clear, colourless to red solution.**Application:** *n*-Hexyllithium is a non-pyrophoric strong base, primarily used in organic synthesis in deprotonation reactions and as a lithiation reagent. The advantage of this reagent is that the by-product of a deprotonation reaction is *n*-hexane. *n*-Hexane is less volatile and has a higher flash point than the *n*-butane generated from a deprotonation with *n*-butyllithium. 1) *The Chemistry of Organolithium Compounds*; Pergamon: Oxford, 1974; 2) *Organolithium Methods*; Academic Press: London, 1988.

<b>Product Specifications:</b>	<i>n</i> -Hexyllithium, wt. %	32.0 min	34.0 max
	Free Alkalinity, wt. %	1.0	max

*\*This product can be made to agreed upon customer specifications.*

<b>Other Data:</b>	Solvent	Commercial Hexanes
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<b>Physical Properties:</b>	Molecular Weight	92.11
	Contained Hexyllithium	232.7 g/L (1.94 lb/gal)
	Pyrophoricity	Non-pyrophoric
	Density @ 25°C	0.712 g/mL (0.594 lb/gal)

**Solubility:** *n*-Hexyllithium is miscible in all proportions with aliphatic, aromatic, and ethereal solvents; however, there is some reactivity with the latter two solvent types.**Thermal Stability:** At 20°C, the average decomposition rate is <0.002 wt. % per day. Recommended storage: 20°C or lower.**Toxicity / Safety Data / Handling / Storage / Disposal:** *Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.*



**Shipping Containers:** Bulk Containers 2,000 – 20,000 L  
Cylinders #5 – 420 L  
Glass Bottles 125 mL 500 mL, and 1 L

**Shipping Limitations:** Shipments of NHL are described as "Corrosive Liquid, Flammable, N.O.S., (HEXYLLITHIUM IN HEXANES), 8 (3), UN2920, PG I." Shipments require "Corrosive" and "Flammable Liquid" labels.

Post, Parcel	Not acceptable	
Sea	Class 8 (3)	(IMDG)
Road, Rail (USA)	Class 8 (3)	(DOT)
Road, Rail (EU)	Class 8 (3)	(RID/ADR)
Air	Class 8 (3)	(IATA)

1.0 L maximum per inner glass container.  
2.5 L maximum per single/outer container.  
Cargo aircraft only.