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n-Butyllithium, 15% in Heptane

QS-PDS-045 Revision: 04

CAS No. 109-72-8

Date of Last Revision: July 7, 2022

Formula:	CH ₃ CH ₂ CH ₂ CH ₂ -Li		
Appearance:	Clear, yellowish solution		
Application:	Deprotonation and metal–halogen exchange reactions; synthesis of solution styrene butadiene rubber and of styrenic thermoplastic elastomers. Also used for synthesis of chemical intermediates.		
Product Specifications:	<i>n-</i> Butyllithium, wt. % Free Alkalinity +, wt. % Carbon Bound Lithium, wt. %	14.5 min 15.5 max 97.5 min	
	*This product can be made to agreed upon customer specifications.		
Other Data:	Solvent	Heptane	
Physical Properties:	Molecular Weight Contained Butyllithium Pyrophoricity Density @ 25.1°C	64.06 105.3 g/L (0.88 lb/gal) Pyrophoric 0.7021 g/mL (5.89 lb/gal)	
Solubility:	<i>n</i> -Butyllithium 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 and 35°C, the average decomposition rates are 0.002 wt. % per day and 0.017 wt. % per day, respectively. Recommended storage: 20°C or lower and preferably at 10°C		
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 – 22,000 L (35,000 also available in EU only)		



Cylinders #20 – 440 L Glass Bottles 125 mL, 500 mL, 1L

Shipping Limitations: Shipments of NBL are described as "ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE (N-BUTYLLITHIUM, HYDROCARBON SOLUTION), 4.2 (4.3), UN 3394, PG I". Shipments require "Spontaneously Combustible" and "Dangerous When Wet" labels.

Post, Parcel, Air	Not acceptable	
Sea	Class 4.2 (4.3)	(IMDG)
Road, Rail (USA)	Class 4.2 (4.3)	(DOT)
Road, Rail (EU)	Class 4.2 (4.3)	(RID/ADR)

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