Livent

_n_-Butyllithium in Hexane (24% Solution) **CAS No. 109-72-8**

QS-PDS-058 Revision: 04 **Date of Last Revision: Jul 06, 2021**

Formula: $CH_3CH_2CH_2CH_2–Li$

Appearance: Light or pale yellow; clear and free of suspended material.

Application: Synthesis of chemical intermediates.

Product Specifications:

Active Butyllithium, wt. %	23.0 – 25.0	
Carbon Bound, %	95	Min

**This product can be made to agree upon customer specifications.*

Physical Properties:

Molecular weight	64.06
Contained butyllithium @ 25°C	162.0 g/L (1.35 lb/gal)
Pyrophoricity	Pyrophoric
Density @25°C	0.67 g/cc (5.63 lb/gal)

Solubility: n-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 rate is 0.003 wt% per day and 0.027 wt% per day respectively. Recommended storage: 20°C or lower and preferably at less than 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 – 31,500 L
Cylinders	18 – 405 L

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)