



A constant flow of innovation  
for pyrophoric products

# AcroSeal Packaging

Highly reactive reagents often required in organic synthesis may be hazardous to use, including compounds that can be pyrophoric, toxic, carcinogenic, mutagenic, corrosive and odorous e.g. thiols. Our innovative AcroSeal packaging provides a safer solution for handling these reagents by allowing removal of the reagent from the bottle under an inert atmosphere and without exposing the contents to the environment.

## Focus on Pyrophoric reagents

From the Greek pyrophoros meaning 'fire-bearing' pyrophoric compounds have the ability to ignite spontaneously in the air and often on contact with water and thus pose a significant risk of fire. Whilst being extremely useful for synthetic chemistry, pyrophoric reagents can be amongst the most hazardous compounds used in the chemistry laboratory.

One of the challenges facing an organic chemist is to minimise the hazards of handling such products whilst taking advantage of their reactive properties. Creating fresh reagent solutions in the lab can require complex, potentially hazardous and time consuming steps such as distillations and the use of gas cylinders.

Our extended range of AcroSeal packaged reagents can decrease risk in the laboratory through reducing the preparation required and facilitating safe transfer of the reagent from the storage to reaction vessel.

Our range of pyrophoric reagents offered in AcroSeal packaging has recently been extended to include Alfa Aesar products. These feature our most chemically stable septum for better performance against these highly reactive chemicals.

## Alfa Aesar Products

Stock No.	Product Description	CAS#	Size
H36949.AD	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	50ml
H36949.AE	n-Butyllithium, 2.5M in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	100ml
H36949.9Z	n-Butyllithium, 2.5M in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	800ml
H36033.AE	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	100ml
H36033.AP	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	500ml
H36033.9Z	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable AcroSeal® bottles	109-72-8	800ml
H37922.AE	sec-Butyllithium, 1.3M in cyclohexane/hexane, packaged under Nitrogen in resealable AcroSeal® bottles	598-30-1	100ml
H37922.9Z	sec-Butyllithium, 1.3M in cyclohexane/hexane, packaged under Nitrogen in resealable AcroSeal® bottles	598-30-1	800ml
H36881.AE	tert-Butyllithium, nominally 1.9M in pentane, packaged under Nitrogen in resealable AcroSeal® bottles	594-19-4	100ml
H36881.9Z	tert-Butyllithium, nominally 1.9M in pentane, packaged under Nitrogen in resealable AcroSeal® bottles	594-19-4	800ml
H37734.AE	Diethylzinc, nominally 15% w/w in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	557-20-0	100ml
H37734.9Z	Diethylzinc, nominally 15% w/w in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	557-20-0	800ml
H37222.AE	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	100ml
H37222.AN	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	400ml
H37222.9Z	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	800ml
H36141.AE	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	100ml
H36141.AN	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	400ml
H36141.9Z	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	800ml
H37108.AE	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	100ml
H37108.9Z	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable AcroSeal® bottles	1191-15-7	800ml
H36830.AE	Lithium triethylborohydride, 1.7M in THF, packaged under Nitrogen in resealable AcroSeal® bottles	22560-16-3	100ml
H36830.9Z	Lithium triethylborohydride, 1.7M in THF, packaged under Nitrogen in resealable AcroSeal® bottles	22560-16-3	800ml
H36516.AE	Methylolithium, 1.6M in diethyl ether, packaged under Nitrogen in resealable AcroSeal® bottles	917-54-4	100ml
H36516.9Z	Methylolithium, 1.6M in diethyl ether, packaged under Nitrogen in resealable AcroSeal® bottles	917-54-4	800ml

Further product information can be found at [Alfa.com](http://Alfa.com). Products can be ordered from your local Alfa Aesar distributor or directly from [Alfa.com](http://Alfa.com)




## Highly reactive reagents often required in organic synthesis

### Acros Organics Products

Stock No.	Product Description	CAS#	Size
209538000	Allylmagnesium bromide, 1M solution in diethyl ether, AcroSeal®	1730-25-2	800ml
209531000	Allylmagnesium bromide, 1M solution in diethyl ether, AcroSeal®	1730-25-2	100ml
165811000	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF, AcroSeal®	280-64-8	100ml
165818000	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF, AcroSeal®	280-64-8	800ml
377491000	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane AcroSeal®	109-72-8	100ml
377498000	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane AcroSeal®	109-72-8	800ml
213358000	n-Butyllithium, 2.5M solution in hexanes, AcroSeal®	109-72-8	800ml
213350500	n-Butyllithium, 2.5M solution in hexanes, AcroSeal®	109-72-8	50ml
213351000	n-Butyllithium, 2.5M solution in hexanes, AcroSeal®	109-72-8	100ml
181278000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal®	109-72-8	800ml
181271000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal®	109-72-8	100ml
181275000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal®	109-72-8	500ml
378931000	n-Butyllithium, 2.7M solution in toluene, AcroSeal®	109-72-8	100ml
378938000	n-Butyllithium, 2.7M solution in toluene, AcroSeal®	109-72-8	800ml
187541000	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8), AcroSeal®	598-30-1	100ml
187548000	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8), AcroSeal®	598-30-1	800ml
396541000	tert-Butyllithium, 1.9M solution in pentane, AcroSeal®	594-19-4	100ml
396548000	tert-Butyllithium, 1.9M solution in pentane, AcroSeal®	594-19-4	800ml
398388000	Diethylmethoxyborane, 4M solution in THF, AcroSeal®	7397-46-8	800ml
398381000	Diethylmethoxyborane, 4M solution in THF, AcroSeal®	7397-46-8	100ml
205511001	Diethylzinc, 0.9M (15 wt%) solution in hexane, AcroSeal®	557-20-0	100ml
205518000	Diethylzinc, 0.9M (15 wt%) solution in hexane, AcroSeal®	557-20-0	800ml
183794000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal®	1191-15-7	400ml
183798000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal®	1191-15-7	800ml
183791000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal®	1191-15-7	100ml
427290500	Diphenylphosphine, 95%, AcroSeal®	829-85-6	50ml
301658000	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane, AcroSeal®	21369-64-2	800ml
301651000	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane, AcroSeal®	21369-64-2	100ml
377598000	Isobutyllithium, 1.7M solution in heptane, AcroSeal®	920-36-5	800ml
377591000	Isobutyllithium, 1.7M solution in heptane, AcroSeal®	920-36-5	100ml
450691000	Lithium triethylborohydride, 1.7M solution in THF, AcroSeal®	22560-16-3	100ml
450698000	Lithium triethylborohydride, 1.7M solution in THF, AcroSeal®	22560-16-3	800ml
181298000	Methylolithium, 2.2M (6wt%) in diethyl ether with LiBr, AcroSeal®	917-54-4	800ml
181291000	Methylolithium, 2.2M (6wt%) in diethyl ether with LiBr, AcroSeal®	917-54-4	100ml
188758000	Methylolithium, 1.6 M sol. in diethyl ether (± 5% w/v), AcroSeal®	917-54-4	800ml
188751000	Methylolithium, 1.6 M sol. in diethyl ether (± 5% w/v), AcroSeal®	917-54-4	100ml
445848000	Methylolithium, 3% solution in 2-MeTHF/cumene, AcroSeal®	917-54-4	800ml
445841000	Methylolithium, 3% solution in 2-MeTHF/cumene, AcroSeal®	917-54-4	100ml
177101000	Tributylborane, 1M solution in THF, AcroSeal®	122-56-5	100ml
177108000	Tributylborane, 1M solution in THF, AcroSeal®	122-56-5	800ml
427308000	Tri-n-butylphosphine, 95%, AcroSeal®	998-40-3	800ml
427301000	Tri-n-butylphosphine, 95%, AcroSeal®	998-40-3	100ml
377298000	Triethylaluminium, 1.3M solution in heptane, AcroSeal®	97-93-8	800ml
377291000	Triethylaluminium, 1.3M solution in heptane, AcroSeal®	97-93-8	100ml
381178000	Triethylaluminium, 0.6M solution in heptane, AcroSeal®	97-93-8	800ml
381171000	Triethylaluminium, 0.6M solution in heptane, AcroSeal®	97-93-8	100ml

Further product information can be found at [Acros.com](http://Acros.com). Products can be ordered from your local Acros Organics distributor.





The combined benefits of consistent product quality, convenience and safer handling make AcroSeal packaged pyrophoric reagents the solution of choice for many organic chemists.

Please visit [thermofisher.com/acroseal](https://thermofisher.com/acroseal) for detailed usage instructions and information on the complete portfolio of over 600 products available in our innovative

AcroSeal packaging including:

- **Extra dry solvents**
- **Deuterated solvents**
- **Organics**
- **Organometallics**
- **Reagents in solution**

Products are available from our global network of distribution partners. For more information visit our websites:

**[acros.com](https://acros.com)** **[alfa.com](https://alfa.com)**

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