

chemicals

ACROS  
ORGANICS

Alfa Aesar



A constant flow of innovation  
for pyrophoric products

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# 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



## 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

IBS No.	Product Description	CAS#	Size
16675895	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable bottles	109-72-8	50ml
16685895	n-Butyllithium, 2.5M in hexane, packaged under Nitrogen in resealable bottles	109-72-8	100ml
16665895	n-Butyllithium, 2.5M in hexane, packaged under Nitrogen in resealable bottles	109-72-8	800ml
16655885	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable bottles	109-72-8	100ml
16665885	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable bottles	109-72-8	500ml
16645885	n-Butyllithium, 1.6M in hexanes, packaged under Nitrogen in resealable bottles	109-72-8	800ml
16675905	sec-Butyllithium, 1.3M in cyclohexane/hexane, packaged under Nitrogen in resealable bottles	598-30-1	100ml
16665905	sec-Butyllithium, 1.3M in cyclohexane/hexane, packaged under Nitrogen in resealable bottles	598-30-1	800ml
16655895	tert-Butyllithium, nominally 1.9M in pentane, packaged under Nitrogen in resealable bottles	594-19-4	100ml
16645895	tert-Butyllithium, nominally 1.9M in pentane, packaged under Nitrogen in resealable bottles	594-19-4	800ml
16655905	Diethylzinc, nominally 15% w/w in hexane, packaged under Nitrogen in resealable bottles	557-20-0	100ml
16645905	Diethylzinc, nominally 15% w/w in hexane, packaged under Nitrogen in resealable bottles	557-20-0	800ml
16625905	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable bottles	1191-15-7	100ml
16635905	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable bottles	1191-15-7	400ml
16615905	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable bottles	1191-15-7	800ml
16685885	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable bottles	1191-15-7	100ml
16695885	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable bottles	1191-15-7	400ml
16675885	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable bottles	1191-15-7	800ml
16605905	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable bottles	1191-15-7	100ml
16695895	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable bottles	1191-15-7	800ml
16635895	Lithium triethylborohydride, 1.7M in THF, packaged under Nitrogen in resealable bottles	22560-16-3	100ml
16625895	Lithium triethylborohydride, 1.7M in THF, packaged under Nitrogen in resealable bottles	22560-16-3	800ml
16615895	Methylolithium, 1.6M in diethyl ether, packaged under Nitrogen in resealable bottles	917-54-4	100ml
16605895	Methylolithium, 1.6M in diethyl ether, packaged under Nitrogen in resealable bottles	917-54-4	800ml

## Highly reactive reagents often required in organic synthesis

### Acros Organics Products

IBS No.	Product Description	CAS#	Size
10735135	Allylmagnesium bromide, 1M solution in diethyl ether	1730-25-2	800ml
10081544	Allylmagnesium bromide, 1M solution in diethyl ether	1730-25-2	100ml
10315092	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF	280-64-8	100ml
10609834	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF	280-64-8	800ml
10471533	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane	109-72-8	100ml
10249972	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane	109-72-8	800ml
10181852	n-Butyllithium, 2.5M solution in hexanes	109-72-8	800ml
16243861	n-Butyllithium, 2.5M solution in hexanes	109-72-8	50ml
10030462	n-Butyllithium, 2.5M solution in hexanes	109-72-8	100ml
10325592	n-Butyllithium, 1.6M solution in hexanes	109-72-8	800ml
10161902	n-Butyllithium, 1.6M solution in hexanes	109-72-8	100ml
10731984	n-Butyllithium, 1.6M solution in hexanes	109-72-8	500ml
10555183	n-Butyllithium, 2.7M solution in toluene	109-72-8	100ml
10256232	n-Butyllithium, 2.7M solution in toluene	109-72-8	800ml
10325942	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8)	598-30-1	100ml
10568513	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8)	598-30-1	800ml
10792135	tert-Butyllithium, 1.9M solution in pentane	594-19-4	100ml
10105433	tert-Butyllithium, 1.9M solution in pentane	594-19-4	800ml
10462894	Diethylmethoxyborane, 4M solution in THF	7397-46-8	800ml
10225004	Diethylmethoxyborane, 4M solution in THF	7397-46-8	100ml
10598123	Diethylzinc, 0.9M (15 wt%) solution in hexane	557-20-0	100ml
10508133	Diethylzinc, 0.9M (15 wt%) solution in hexane	557-20-0	800ml
10002410	Diisobutylaluminium hydride, 1M solution in hexane	1191-15-7	400ml
10368003	Diisobutylaluminium hydride, 1M solution in hexane	1191-15-7	800ml
10309812	Diisobutylaluminium hydride, 1M solution in hexane	1191-15-7	100ml
10492314	Diphenylphosphine, 95%	829-85-6	50ml
10115320	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane	21369-64-2	800ml
10369350	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane	21369-64-2	100ml
10402493	Isobutyllithium, 1.7M solution in heptane	920-36-5	800ml
10026182	Isobutyllithium, 1.7M solution in heptane	920-36-5	100ml
15103498	Lithium triethylborohydride, 1.7M solution in THF	22560-16-3	100ml
15269305	Lithium triethylborohydride, 1.7M solution in THF	22560-16-3	800ml
10547573	Methylithium, 2.2M (6wt%) in diethyl ether with LiBr	917-54-4	800ml
10547383	Methylithium, 2.2M (6wt%) in diethyl ether with LiBr	917-54-4	100ml
10386212	Methylithium, 1.6 M sol. in diethyl ether ( $\pm$ 5% w/v)	917-54-4	800ml
10409690	Methylithium, 1.6 M sol. in diethyl ether ( $\pm$ 5% w/v)	917-54-4	100ml
11916161	Methylithium, 3% solution in 2-MeTHF/cumene	917-54-4	800ml
11996151	Methylithium, 3% solution in 2-MeTHF/cumene	917-54-4	100ml
10731345	Tributylborane, 1M solution in THF	122-56-5	100ml
10317980	Tributylborane, 1M solution in THF	122-56-5	800ml
10472504	Tri-n-butylphosphine, 95%	998-40-3	800ml
10402324	Tri-n-butylphosphine, 95%	998-40-3	100ml
10036262	Triethylaluminium, 1.3M solution in heptane	97-93-8	800ml
10172172	Triethylaluminium, 1.3M solution in heptane	97-93-8	100ml
10198102	Triethylaluminium, 0.6M solution in heptane	97-93-8	800m
10188102	Triethylaluminium, 0.6M solution in heptane	97-93-8	100ml



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 [eu.fishersci.com/go/acroseal](http://eu.fishersci.com/go/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**

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