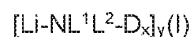


What is claimed is:

1. A method for forming a Li-containing film, islet or cluster on a substrate, the method comprising the steps of:

introducing a silicon-free lithium precursor having a general formula



into a reactor containing the substrate disposed therein, wherein

L^1 has a general formula: C_mH_n , $(\text{C}_m\text{H}_n)\text{-ER}^1\text{R}^2$ or $(\text{C}_m\text{H}_n)\text{-E}'\text{R}^1$, wherein

- C_mH_n is a linear, branched or cyclic alkyl groups;
- m and n are independent integers, $1 \leq m \leq 16$, $1 \leq n \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^1 and R^2 each are independently selected from the group consisting of linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

L^2 has a general formula: $(\text{C}_p\text{H}_q)\text{-ER}^3\text{R}^4$ or $(\text{C}_p\text{H}_q)\text{-E}'\text{R}^3$, wherein

- C_pH_q is a linear, branched or cyclic alkyl groups;
- p and q are independent integers, $1 \leq p \leq 16$, $1 \leq q \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^3 and R^4 each are independently selected from the group consisting of linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

D is independently selected from monodentate, bidentate, tridentate, or polydentate neutral coordinating ligand system;

x is an integer, $0 \leq x \leq 4$; and

y is the degree of association of the molecule, $1 \leq y \leq 6$; and

depositing at least part of the silicon-free lithium precursor onto the substrate to form the Li-containing film, islet or cluster using a vapor deposition method.

2. The method of claim 1, wherein

L^1 is a $\text{C}_1\text{-C}_{16}$ linear, branched or cyclic carbon chains, or of the form $(\text{C}_m\text{H}_n)\text{-ER}^1\text{R}^2$ or $(\text{C}_m\text{H}_n)\text{-E}'\text{R}^1$, wherein

- C_mH_n is an alkyl chain and may be linear, branched or cyclic alkyl groups;
- E represents B, N;

$\text{LiN}(\text{CH}_2\text{CMe}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{CH}_2\text{NMe}_2)$,
 $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OEt})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OiPr})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OtBu})$,
 $\text{LiNEt}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNEt}(\text{CH}_2\text{CH}_2\text{OEt})$, $\text{LiNiPr}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNiBu}(\text{CH}_2\text{CH}_2\text{OMe})$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{OMe})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OEt})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OiPr})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OtBu})_2$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OEt})$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OiPr})$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OtBu})$, or
 $\text{LiNMe}(\text{CH}_2\text{CH}(\text{OMe})_2)$.

4. The method of claim 1, wherein the silicon-free lithium precursor is selected from
 $\text{LiNiBu}(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiNiBu}(\text{CH}_2\text{CH}_2\text{NEtMe})$, $\text{LiNiBu}(\text{CHMeCH}_2\text{NMe}_2)$,
 $\text{LiNiBu}(\text{CH}_2\text{CHMeNMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NEtMe})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OEt})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{CH}_2\text{NMe}_2)_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMeEt})_2$, $\text{LiN}(\text{CHMeCH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$,
 $\text{LiN}(\text{CH}_2\text{CHMeNMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CHEtCH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$,
 $\text{LiN}(\text{CH}_2\text{CHEtNMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CMe}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$,
 $\text{LiN}(\text{CH}_2\text{CMe}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NiPr}_2)_2$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OEt})_2$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OEt})$, or
 $\text{LiNMe}(\text{CH}_2\text{CH}(\text{OMe})_2)$.

5. The method of claim 1, wherein the silicon-free lithium precursor is
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2$.

6. The method of claim 1, wherein the silicon-free lithium precursor is a monomer, a dimer, a trimer, or combinations thereof.

7. The method of claim 1, wherein the silicon-free lithium precursor is liquid below 150°C .

8. The method of claim 1, wherein the vapor deposition method is ALD, CVD, spray coating, dip coating, slit coating, spin-on deposition or a combination thereof.

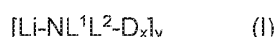
9. The method of claim 1, further comprising the step of delivering into the reactor a co-reactant selected from O_3 , O_2 , H_2O , trimethylphosphate, an alkylphosphate, an alkylphosphimine, NO , N_2O , H_2O_2 , O radicals, or combinations thereof.

10. The method of claim 9, wherein the co-reactant is O_3 .

11. The method of claim 1, wherein the Li-containing film, islet or cluster is a film, islet or cluster of Li_2O , LiOH , Li_2S , Li_3N , LiF , lithium carbonate, lithium, aluminum fluoride, lithium aluminum oxide, lithium aluminum, lithium cobalt oxide, lithium titanate, lithium zirconate, lithium niobate, LiPON , lithium phosphate, lithium borate, lithium borophosphate, lithium niobate, lithium zirconium oxides, or the like.

12. The method of claim 1, wherein the temperature within the reactor ranges from about 0°C to about 600°C .

13. A composition comprising a lithium precursor having a general formula:



wherein

L^1 has a general formula: C_mH_n , $(\text{C}_m\text{H}_n)\text{-ER}^1\text{R}^2$ or $(\text{C}_m\text{H}_n)\text{-E}'\text{R}^1$, wherein

- C_mH_n is a linear, branched or cyclic alkyl groups;
- m and n are independent integers, $1 \leq m \leq 16$, $1 \leq n \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^1 and R^2 each are independently selected from the group consisting of hydrogenlinear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

L^2 has a general formula: $(\text{C}_p\text{H}_q)\text{-ER}^3\text{R}^4$ or $(\text{C}_p\text{H}_q)\text{-E}'\text{R}^3$, wherein

- C_pH_q is a linear, branched or cyclic alkyl groups;
- p and q are independent integers, $1 \leq p \leq 16$, $1 \leq q \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^3 and R^4 each are independently selected from the group consisting of linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

D is independently selected from monodentate, bidentate, tridentate, or polydentate neutral coordinating ligand system;

x is an integer, $0 \leq x \leq 4$; and

y is the degree of association of the molecule, $1 \leq y \leq 6$.

14. The composition of claim 13, wherein

L^1 is a C_1 - C_{16} linear, branched or cyclic carbon chains, or of the form $(C_mH_n)-E'R^1R^2$ or $(C_mH_n)-E'R^1$, wherein

- C_mH_n is an alkyl chain and may be linear, branched or cyclic alkyl groups;
- E represents B, N;
- E' represents a divalent element such as O, S;
- m is an integer which value is 1 or an integer ranging from 1 to 8;
- n is an independent integer ranging from 2 to 16;
- R^1 is independent and selected from the group consisting of hydrogen, linear, branched or cyclic C_1 - C_8 alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;
- R^2 is independent and selected from the group consisting of hydrogen, linear, branched or cyclic C_1 - C_8 alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

L^2 is of the form $(C_pH_q)-ER^3R^4$ or $(C_pH_q)-E'R^3$, wherein

- C_pH_q is an alkyl chain and may be linear, branched or cyclic alkyl groups;
- E represents B, N;
- E' represents a divalent element such as O, S;
- p and q are independent integers ranging from 1 to 16, preferably p is comprised from 1 to 8 and q is comprised from 2 to 16, most preferably p is different from m;
- R^3 and R^4 are independent and selected from the group consisting of hydrogen, linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

D is independently selected from monodentate, bidentate, tridentate, or polydentate neutral coordinating ligand system, preferably a monodentate or a bidentate;

x is an integer comprised between 0 and 4; and

y represents the degree of association of the molecule and is comprised between 1 and 6,

provided that $L^1 = \text{Me}$, $L^2 = \{C_pH_q = \text{CH}_2\text{CH}_2, E = \text{N}, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, x = 0 is excluded;

provided that $L^1 = \text{Et}$, $L^2 = \{C_pH_q = \text{CH}_2\text{CH}_2, E = \text{N}, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, x = 0 is excluded;

provided that $L^1 = \text{iPr}$, $L^2 = \{C_pH_q = \text{CH}_2\text{CH}_2, E = \text{N}, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, x = 0 is excluded;

provided that $L^1 = tBu$, $L^2 = \{C_pH_q = CH_2CH_2, E = N, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, $x = 0$ is excluded;

provided that $L^1 = tBu$, $L^2 = \{C_pH_q = CMeHCH_2, E = N, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, $x = 0$ is excluded;

provided that $L^1 = tBu$, $L^2 = \{C_pH_q = CH_2CHMe, E = N, \text{ and both } R^3 \text{ and } R^4 \text{ are Me}\}$, $x = 0$ is excluded;

provided that $L^1 = \{C_mH_n = CH_2CH_2, E = N, \text{ both } R^1 \text{ and } R^2 \text{ are Me}\}$, $L^2 = \{C_pH_q = CH_2CH_2, E = N, \text{ both } R^3 \text{ and } R^4 \text{ are Me}\}$, $x = 0$ is excluded;

provided that $L^1 = \{C_mH_n = CH_2CH_2, E = N, \text{ both } R^1 \text{ and } R^2 \text{ are Et}\}$, $L^2 = \{C_pH_q = CH_2CH_2, E = N, \text{ both } R^3 \text{ and } R^4 \text{ are Et}\}$, $x = 0$ is excluded; and

provided that $L^1 = Me$, $L^2 = \{C_pH_q = CH_2CH_2, E' = O, R^3 \text{ is Me}\}$, $x = 0$ is excluded.

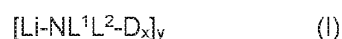
15. The composition of claim 13, wherein the lithium precursor is selected from $LiNMe(CH_2CH_2NMe_2)$, $LiNMe(CH_2CH_2NMe_2)(1,2\text{-diethoxyethane})$, $LiNMe(CH_2CH_2NMe_2)(1,2\text{-dimethoxyethane})$, $LiNEt(CH_2CH_2NMe_2)$, $LiNiPr(CH_2CH_2NMe_2)$, $LiNtBu(CH_2CH_2NMe_2)$, $LiNtBu(CH_2CH_2NEtMe)$, $LiNtBu(CHMeCH_2NMe_2)$, $LiNtBu(CH_2CHMeNMe_2)$, $LiN(CH_2CH_2NMe_2)_2$, $LiN(CH_2CH_2NEt_2)_2$, $LiN(CH_2CH_2NiPr_2)_2$, $LiN(CH_2CH_2NEtMe)_2$, $LiN(CH_2CH_2CH_2NMe_2)_2$, $LiN(CHMeCH_2NMe_2)_2$, $LiN(CHMeCH_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CHMeNMe_2)_2$, $LiN(CH_2CHMeNMe_2)(CH_2CH_2NMe_2)$, $LiN(CHEtCH_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CHEtNMe_2)(CH_2CH_2NMe_2)$, $LiN(CMe_2CH_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CMe_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CH_2NMe_2)(CH_2CH_2CH_2NMe_2)$, $LiNMe(CH_2CH_2OMe)$, $LiNMe(CH_2CH_2OEt)$, $LiNMe(CH_2CH_2OiPr)$, $LiNMe(CH_2CH_2OtBu)$, $LiNEt(CH_2CH_2OMe)$, $LiNEt(CH_2CH_2OEt)$, $LiNiPr(CH_2CH_2OMe)$, $LiNtBu(CH_2CH_2OMe)$, $LiN(CH_2CH_2OMe)_2$, $LiN(CH_2CH_2OEt)_2$, $LiN(CH_2CH_2OiPr)_2$, $LiN(CH_2CH_2OtBu)_2$, $LiN(CH_2CH_2NMe_2)(CH_2CH_2OMe)$, $LiN(CH_2CH_2NMe_2)(CH_2CH_2OEt)$, $LiN(CH_2CH_2NMe_2)(CH_2CH_2OiPr)$, $LiN(CH_2CH_2NMe_2)(CH_2CH_2OtBu)$, or $LiNMe(CH_2CH(OMe)_2)$.

16. The composition of claim 13, wherein the lithium precursor is selected from $LiNtBu(CH_2CH_2NMe_2)$, $LiNtBu(CH_2CH_2NEtMe)$, $LiNtBu(CHMeCH_2NMe_2)$, $LiNtBu(CH_2CHMeNMe_2)$, $LiN(CH_2CH_2NEtMe)_2$, $LiN(CH_2CH_2OEt)_2$, $LiN(CH_2CH_2NMe_2)_2$, $LiN(CH_2CH_2CH_2NMe_2)_2$, $LiN(CH_2CH_2NMeEt)_2$, $LiN(CHMeCH_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CHMeNMe_2)(CH_2CH_2NMe_2)$, $LiN(CHEtCH_2NMe_2)(CH_2CH_2NMe_2)$, $LiN(CH_2CHEtNMe_2)(CH_2CH_2NMe_2)$, $LiN(CMe_2CH_2NMe_2)(CH_2CH_2NMe_2)$,

$\text{LiN}(\text{CH}_2\text{CMe}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{N}i\text{Pr}_2)_2$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OEt})_2$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OEt})$, or
 $\text{LiNMe}(\text{CH}_2\text{CH}(\text{OMe})_2)$.

17. The composition of claim 13, wherein the lithium precursor is $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2$.

18. A film, islet or cluster forming precursor having a general formula:



wherein

L^1 has a general formula: C_mH_n , $(\text{C}_m\text{H}_n)\text{-ER}^1\text{R}^2$ or $(\text{C}_m\text{H}_n)\text{-E}'\text{R}^1$, wherein

- (C_mH_n) is a linear, branched or cyclic alkyl groups;
- m and n are independent integers, $1 \leq m \leq 16$, $1 \leq n \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^1 and R^2 each are independently selected from the group consisting of hydrogen, linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

L^2 has a general formula: $(\text{C}_p\text{H}_q)\text{-ER}^3\text{R}^4$ or $(\text{C}_p\text{H}_q)\text{-E}'\text{R}^3$, wherein

- C_pH_q is a linear, branched or cyclic alkyl groups;
- p and q are independent integers, $1 \leq p \leq 16$, $1 \leq q \leq 16$;
- E is B, N;
- E' is a divalent element;
- R^3 and R^4 each are independently selected from the group consisting of hydrogen, linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

D is independently selected from monodentate, bidentate, tridentate, or polydentate neutral coordinating ligand system;

x is an integer, $0 \leq x \leq 4$; and

y is the degree of association of the molecule, $1 \leq y \leq 6$.

19. The film, islet or cluster forming precursor of claim 18, wherein

L^1 is a $\text{C}_1\text{-C}_{16}$ linear, branched or cyclic carbon chains, or of the form $(\text{C}_m\text{H}_n)\text{-ER}^1\text{R}^2$ or $(\text{C}_m\text{H}_n)\text{-E}'\text{R}^1$, wherein

- C_mH_n is an alkyl chain and may be linear, branched or cyclic alkyl groups;

- E represents B, N;
- E' represents a divalent element such as O, S;
- m is an integer which value is 1 or an integer ranging from 1 to 8;
- n is an independent integer ranging from 2 to 16;
- R¹ is independent and selected from the group consisting of hydrogen, linear, branched or cyclic C₁-C₈ alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;
- R² is independent and selected from the group consisting of hydrogen, linear, branched or cyclic C₁-C₈ alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

L² is of the form (C_pH_q)-ER³R⁴ or (C_pH_q)-E'R³, wherein

- C_pH_q is an alkyl chain and may be linear, branched or cyclic alkyl groups;
- E represents B, N;
- E' represents a divalent element such as O, S;
- p and q are independent integers ranging from 1 to 16, preferably p is comprised from 1 to 8 and q is comprised from 2 to 16, most preferably p is different from m;
- R³ and R⁴ are independent and selected from the group consisting of hydrogen, linear, branched or cyclic alkyl groups, or linear, branched or cyclic alkyl groups substituted by other atoms or groups;

D is independently selected from monodentate, bidentate, tridentate, or polydentate neutral coordinating ligand system, preferably a monodentate or a bidentate;

x is an integer comprised between 0 and 4; and

y represents the degree of association of the molecule and is comprised between 1 and 6.

20. The film, islet or cluster forming precursor of claim 18 being selected from
 LiNMe(CH₂CH₂NMe₂), LiNMe(CH₂CH₂NMe₂)(1,2-diethoxyethane),
 LiNMe(CH₂CH₂NMe₂)(1,2-dimethoxyethane), LiNEt(CH₂CH₂NMe₂), LiNiPr(CH₂CH₂NMe₂),
 LiⁿtBu(CH₂CH₂NMe₂), LiⁿtBu(CH₂CH₂NEtMe), LiⁿtBu(CHMeCH₂NMe₂),
 LiⁿtBu(CH₂CHMeNMe₂), LiN(CH₂CH₂NMe₂)₂, LiN(CH₂CH₂NEt)₂, LiN(CH₂CH₂NiPr)₂,
 LiN(CH₂CH₂NEtMe)₂, LiN(CH₂CH₂CH₂NMe₂)₂, LiN(CHMeCH₂NMe₂)₂,
 LiN(CHMeCH₂NMe₂)(CH₂CH₂NMe₂), LiN(CH₂CHMeNMe₂)₂,
 LiN(CH₂CHMeNMe₂)(CH₂CH₂NMe₂), LiN(ChEtCH₂NMe₂)(CH₂CH₂NMe₂),
 LiN(CH₂ChEtNMe₂)(CH₂CH₂NMe₂), LiN(CMe₂CH₂NMe₂)(CH₂CH₂NMe₂),

$\text{LiN}(\text{CH}_2\text{CMe}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{NMe}_2)$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{CH}_2\text{NMe}_2)$,
 $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OEt})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OiPr})$, $\text{LiNMe}(\text{CH}_2\text{CH}_2\text{OtBu})$,
 $\text{LiNEt}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNEt}(\text{CH}_2\text{CH}_2\text{OEt})$, $\text{LiNiPr}(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiNiBu}(\text{CH}_2\text{CH}_2\text{OMe})$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{OMe})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OEt})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OiPr})_2$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{OtBu})_2$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OMe})$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OEt})$,
 $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OiPr})$, $\text{LiN}(\text{CH}_2\text{CH}_2\text{NMe}_2)(\text{CH}_2\text{CH}_2\text{OtBu})$, or
 $\text{LiNMe}(\text{CH}_2\text{CH}(\text{OMe})_2)$.