Patent Claims

1. Use of a stabilizer represented by the following formula in suppressing generation of silane from a polysilane composition:

$CH_2=CH-R^1$

wherein R^1 is
C_{3-20} linear, branched or cyclic alkyl group,
C_{2-15} linear or branched alkenyl group or
C_{7-20} aryl group substituted with alkenyl group, and
wherein generation of silane from the polysilane composition is suppressed by adding the stabilizer.

2. The use according to claim 1, wherein R^1 is
C_{3-20} linear or branched alkyl group,
C_{5-8} cyclic alkyl group,
C_{3-15} linear alkenyl group having an unsaturated bond at a terminal, or
C_{7-10} phenyl group substituted with alkenyl group having an unsaturated bond at a terminal.

3. The use according to claim 1 or 2, wherein the stabilizer is selected from the group consisting of 1-pentene, 1-hexene, 3-methyl-1-pentene, 4-methyl-1-pentene, 3,3-dimethyl-1-butene, 1-heptene, 5-methyl-1-hexene, 1-octene, 1-nonene, 1-decene, 1-dodecene, 1-tetradecene, 1-hexadecene, 1-octadecene, vinylcyclopentane, vinylcyclohexane, allylcyclohexane, 1,4-pentadiene, 1,5-hexadiene, 1,6-heptadiene, 1,7-octadiene, 1,8-nonadiene, 1,9-decadiene, 1,10-undecadiene, 1,11-dodecadiene, 1,2-divinylbenzene, 1,3-divinylbenzene, and 1,4-divinylbenzene.

4. The use according to one or more of claims 1 to 3, wherein the polysilane is polyperhydrosilane.

5. A method of suppressing generation of silane, comprising making a stabilizer represented by the following formula coexist

with a polysilane,

$CH_2=CH-R^1$

wherein R^1 is
C_{3-20} linear, branched or cyclic alkyl group,
C_{2-15} linear or branched alkenyl group or
C_{7-20} aryl group substituted with alkenyl group.

6. The method according to claim 5, wherein R^1 is
C_{3-20} linear or branched alkyl group,
C_{5-8} cyclic alkyl group,
C_{3-15} linear alkenyl group having an unsaturated bond at a terminal, or
C_{7-10} phenyl group substituted with alkenyl group having an unsaturated bond at a terminal.

7. The method according to claim 5 or 6,
wherein the stabilizer is selected from the group consisting of 1-pentene, 1-hexene, 3-methyl-1-pentene, 4-methyl-1-pentene, 3,3-dimethyl-1-butene, 1-heptene, 5-methyl-1-hexene, 1-octene, 1-nonene, 1-decene, 1-dodecene, 1-tetradecene, 1-hexadecene, 1-octadecene, vinylcyclopentane, vinylcyclohexane, allylcyclohexane, 1,4-pentadiene, 1,5-hexadiene, 1,6-heptadiene, 1,7-octadiene, 1,8-nonadiene, 1,9-decadiene, 1,10-undecadiene, 1,11-dodecadiene, 1,2-divinylbenzene, 1,3-divinylbenzene, and 1,4-divinylbenzene.

8. The method according to one or more of claims 5 to 7,
wherein the polysilane is polyperhydrosilane.