PEG-(silane)2 3K
(Polyethylene glycol-(silane)2, MW 3,400)

1. Product Identification

CAS No.: not available
Synonyms: homo-bifunctional PEG-silane 3.4K
Molecular weight: Approximately 3,400
Chemical formula:
Silane-(CH2CH2O)77-CH2-silane

Generally intended use: pharmaceutical and diagnostic applications

2. Composition/Information on Ingredients

Ingredient Percent Hazardous
Bifunctional polyethylene glycol-silane > 90 % No
Polyethylene glycol < 10 % No

3. Hazards Identification

Safety Ratings
Health: Slight (maybe harmful if inhaled)
Flammability: None
Reactivity: None
Contact: None

Lab Protection Equipment
Lab coat, goggles, mask, gloves

Storage
General storage

Potential Health Effects
The most severe health hazards may include respiratory, eye and skin irritability
4. First Aid Measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

Induce vomiting immediately as directed by medical personnel. Get medical attention.

Skin contact

Flush with water.

Eye contact

Flush with water.

5. Fire Fighting Measures

Fire

Not expected to be a fire hazard.

Explosion

No information found.

Fire extinguishing media

Use extinguishing media appropriate for surrounding fire.

Special information

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear suitable protective clothing. Carefully sweep up and remove.

7. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues.

8. Exposure Controls/Personal Protection

Ventilation

A system of local and/or general exhaust is recommended to keep employee from exposures. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

9. Physical and Chemical Properties

Appearance

White powder
Odor

Odorless

Solubility

40 - 70 %

pH

No information found

Volatile

Zero

Melting point

50 degree Celsius

Vapor density

Not applicable

Vapor pressure

Not applicable

10. Stability and Reactivity

Stability

Stable under ordinary conditions of use and storage.

Hazardous decomposition products

Silane

Hazardous polymerization

Will not occur.

Incompatibilities

Strong acids, strong bases.

Conditions to avoid

Moisture, temperature above 40 degree Celsius.

11. Toxicological Information

General toxicology

Safety established at 10 g/kg body weight intravenous injection into laboratory animals.

Carcinogenicity

Not known to be carcinogenic

12. Ecological Information

Environmental fate
13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

14. Transport Information

Not regulated.

Prepared by

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