



## Section 2. Hazards identification

gel

Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

#### Silica gel

Comb. Dusts COMBUSTIBLE DUSTS

#### Organosilane bonded silica gel

Comb. Dusts COMBUSTIBLE DUSTS

#### Organosilane bonded silica gel

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Comb. Dusts COMBUSTIBLE DUSTS

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Comb. Dusts COMBUSTIBLE DUSTS

### 2.2 GHS label elements

#### Signal word

: Silica gel Warning  
 Organosilane bonded silica gel Warning  
 Organosilane bonded silica gel Warning  
 Organosilane bonded silica gel Warning  
 Organosilane bonded silica gel Warning  
 Organosilane bonded silica gel Warning

#### Hazard statements

: Silica gel No Code(s) - May form combustible dust concentrations in air.  
 Organosilane bonded silica gel No Code(s) - May form combustible dust concentrations in air.  
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### Precautionary statements

#### Prevention

: Silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.

#### Response

: Silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.  
 Organosilane bonded silica gel Not applicable.

## Section 2. Hazards identification

<b>Storage</b>	: Silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
<b>Disposal</b>	: Silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
	Organosilane bonded silica gel	Not applicable.
<b>Supplemental label elements</b>	: Silica gel	Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
	Organosilane bonded silica gel	Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
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<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: Silica gel	None known.
	Organosilane bonded silica gel	None known.
	Organosilane bonded silica gel	None known.
	Organosilane bonded silica gel	None known.
	Organosilane bonded silica gel	None known.
	Organosilane bonded silica gel	None known.

## Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

<b>Substance/mixture</b>	: Silica gel	Substance (encapsulated in article)
	Organosilane bonded silica gel	Substance (encapsulated in article)
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## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
<b>Silica gel</b> Silica, amorphous, precipitated and gel	100	112926-00-8
<b>Organosilane bonded silica gel</b> Organosilane bonded silica gel	100	-
<b>Organosilane bonded silica gel</b> Organosilane bonded silica gel	100	-
<b>Organosilane bonded silica gel</b> Organosilane bonded silica gel	100	-
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Note: The hazard information listed is based on unbonded silica gel CAS Number 112926-00-8. To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

#### Eye contact

: **Silica gel**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Organosilane bonded silica gel

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## Section 4. First aid measures

### Inhalation

: Silica gel

Organosilane bonded silica gel

medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Organosilane bonded silica gel

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Organosilane bonded silica gel

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## Section 4. First aid measures

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### Skin contact

: Silica gel

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Organosilane bonded silica gel

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### Ingestion

: Silica gel

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if



## Section 4. First aid measures

Organosilane bonded silica gel	<p>adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p> <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
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## Section 4. First aid measures

Organosilane bonded silica gel

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### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

: Silica gel

Organosilane bonded silica gel

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Organosilane bonded silica gel

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##### Inhalation

: Silica gel

Organosilane bonded silica gel

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Organosilane bonded silica gel

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Organosilane bonded silica gel

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Exposure to airborne concentrations above



## Section 4. First aid measures

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<b>Skin contact</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
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<b>Ingestion</b>	: Silica gel	No known significant effects or critical hazards.
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<b><u>Over-exposure signs/symptoms</u></b>		
<b>Eye contact</b>	: Silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
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<b>Inhalation</b>	: Silica gel	Adverse symptoms may include the following: respiratory tract irritation coughing
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## Section 4. First aid measures

**Skin contact** : Silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.

**Ingestion** : Silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.  
 Organosilane bonded silica gel No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Silica gel Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
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**Specific treatments** : Silica gel No specific treatment.  
 Organosilane bonded silica gel No specific treatment.  
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**Protection of first-aiders** : Silica gel No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  
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## Section 4. First aid measures

Organosilane bonded silica gel

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

: Silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel

Use dry chemical powder.  
 Use dry chemical powder.  
 Use dry chemical powder.  
 Use dry chemical powder.  
 Use dry chemical powder.  
 Use dry chemical powder.

#### Unsuitable extinguishing media

: Silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.  
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### 5.2 Special hazards arising from the substance or mixture

#### Specific hazards arising from the chemical

: Silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel

May form explosible dust-air mixture if dispersed.  
 May form explosible dust-air mixture if dispersed.  
 May form explosible dust-air mixture if dispersed.  
 May form explosible dust-air mixture if dispersed.  
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 May form explosible dust-air mixture if dispersed.

#### Hazardous thermal decomposition products

: Silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel  
 Organosilane bonded silica gel

Decomposition products may include the following materials:  
 metal oxide/oxides  
 Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 metal oxide/oxides  
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 carbon dioxide  
 carbon monoxide  
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 carbon dioxide  
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 carbon dioxide

## Section 5. Fire-fighting measures

Organosilane bonded silica gel

carbon monoxide  
metal oxide/oxides  
Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

: Silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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#### Special protective equipment for fire-fighters

: Silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Organosilane bonded silica gel

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Fire-fighters should wear appropriate protective

## Section 5. Fire-fighting measures

Organosilane bonded silica gel	equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Organosilane bonded silica gel	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

: Silica gel

Organosilane bonded silica gel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Organosilane bonded silica gel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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## Section 6. Accidental release measures

	Organosilane bonded silica gel	<p>touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p> <p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
<p><b>For emergency responders :</b></p>	<p>☒ Silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p><b>6.2 Environmental precautions</b></p>	<p>☒ Silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p> <p>Organosilane bonded silica gel</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</p>



## Section 6. Accidental release measures

Organosilane bonded silica gel	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Organosilane bonded silica gel	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** : Silica gel

Organosilane bonded silica gel	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Organosilane bonded silica gel	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
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## Section 7. Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Silica gel

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a

## Section 7. Handling and storage

Organosilane bonded silica gel

compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with

adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Organosilane bonded silica gel

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adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Organosilane bonded silica gel

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original

## Section 7. Handling and storage

Organosilane bonded silica gel

container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Organosilane bonded silica gel

## Section 7. Handling and storage

<b>Advice on general occupational hygiene</b>	: Silica gel	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Organosilane bonded silica gel	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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	Organosilane bonded silica gel	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Organosilane bonded silica gel	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	: Silica gel	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Organosilane bonded silica gel	Store in accordance with local regulations. Store in a segregated and approved area. Store in original

## Section 7. Handling and storage

	<p>container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Organosilane bonded silica gel	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
Organosilane bonded silica gel	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
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Organosilane bonded silica gel	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>





## Section 8. Exposure controls/personal protection

Organosilane bonded silica gel

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

**ACGIH TLV (United States).**

Particulate matter not otherwise classified:  
(PNOC): 10 mg/m<sup>3</sup> Form: Inhalable

Particulate matter not otherwise classified:  
(PNOC): 3 mg/m<sup>3</sup> Form: Respirable

**OSHA PEL (United States).**

Particulate matter not otherwise classified:  
(PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

**Organosilane bonded silica gel**

Organosilane bonded silica gel

**ACGIH TLV (United States).**

Particulate matter not otherwise classified:  
(PNOC): 10 mg/m<sup>3</sup> Form: Inhalable

Particulate matter not otherwise classified:  
(PNOC): 3 mg/m<sup>3</sup> Form: Respirable

**OSHA PEL (United States).**

Particulate matter not otherwise classified:  
(PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

Organosilane bonded silica gel

**ACGIH TLV (United States).**

Particulate matter not otherwise classified:  
(PNOC): 10 mg/m<sup>3</sup> Form: Inhalable

Particulate matter not otherwise classified:  
(PNOC): 3 mg/m<sup>3</sup> Form: Respirable

**OSHA PEL (United States).**

Particulate matter not otherwise classified:  
(PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

**Organosilane bonded silica gel**

Organosilane bonded silica gel

**ACGIH TLV (United States).**

Particulate matter not otherwise classified:  
(PNOC): 10 mg/m<sup>3</sup> Form: Inhalable

Particulate matter not otherwise classified:  
(PNOC): 3 mg/m<sup>3</sup> Form: Respirable

**OSHA PEL (United States).**

Particulate matter not otherwise classified:  
(PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

Organosilane bonded silica gel

**ACGIH TLV (United States).**

Particulate matter not otherwise classified:  
(PNOC): 10 mg/m<sup>3</sup> Form: Inhalable

Particulate matter not otherwise classified:  
(PNOC): 3 mg/m<sup>3</sup> Form: Respirable

**OSHA PEL (United States).**

Particulate matter not otherwise classified:  
(PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction

Particulate matter not otherwise classified:  
(PNOC): 15 mg/m<sup>3</sup> Form: Total dust

## Section 8. Exposure controls/personal protection

<p><b>Organosilane bonded silica gel</b> Organosilane bonded silica gel</p>	<p><b>ACGIH TLV (United States).</b> Particulate matter not otherwise classified: (PNOC): 10 mg/m<sup>3</sup> Form: Inhalable Particulate matter not otherwise classified: (PNOC): 3 mg/m<sup>3</sup> Form: Respirable <b>OSHA PEL (United States).</b> Particulate matter not otherwise classified: (PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction Particulate matter not otherwise classified: (PNOC): 15 mg/m<sup>3</sup> Form: Total dust</p>
<p>Organosilane bonded silica gel</p>	<p><b>ACGIH TLV (United States).</b> Particulate matter not otherwise classified: (PNOC): 10 mg/m<sup>3</sup> Form: Inhalable Particulate matter not otherwise classified: (PNOC): 3 mg/m<sup>3</sup> Form: Respirable <b>OSHA PEL (United States).</b> Particulate matter not otherwise classified: (PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction Particulate matter not otherwise classified: (PNOC): 15 mg/m<sup>3</sup> Form: Total dust</p>
<p><b>Organosilane bonded silica gel</b> Organosilane bonded silica gel</p>	<p><b>ACGIH TLV (United States).</b> Particulate matter not otherwise classified: (PNOC): 10 mg/m<sup>3</sup> Form: Inhalable Particulate matter not otherwise classified: (PNOC): 3 mg/m<sup>3</sup> Form: Respirable <b>OSHA PEL (United States).</b> Particulate matter not otherwise classified: (PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction Particulate matter not otherwise classified: (PNOC): 15 mg/m<sup>3</sup> Form: Total dust</p>
<p>Organosilane bonded silica gel</p>	<p><b>ACGIH TLV (United States).</b> Particulate matter not otherwise classified: (PNOC): 10 mg/m<sup>3</sup> Form: Inhalable Particulate matter not otherwise classified: (PNOC): 3 mg/m<sup>3</sup> Form: Respirable <b>OSHA PEL (United States).</b> Particulate matter not otherwise classified: (PNOC): 5 mg/m<sup>3</sup> Form: Respirable fraction Particulate matter not otherwise classified: (PNOC): 15 mg/m<sup>3</sup> Form: Total dust</p>

### 8.2 Exposure controls

**Appropriate engineering controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Silica gel Solid. [Powder.]  
 Organosilane bonded silica gel Solid. [Powder.]  
 Organosilane bonded silica gel Solid. [Powder.]  
 Organosilane bonded silica gel Solid. [Powder.]  
 Organosilane bonded silica gel Solid. [Powder.]  
 Organosilane bonded silica gel Solid. [Powder.]
- Color** : Silica gel White.  
 Organosilane bonded silica gel White.  
 Organosilane bonded silica gel White.  
 Organosilane bonded silica gel White.  
 Organosilane bonded silica gel White.  
 Organosilane bonded silica gel White.
- Odor** : Silica gel Odorless.  
 Organosilane bonded silica gel Odorless.  
 Organosilane bonded silica gel Odorless.  
 Organosilane bonded silica gel Odorless.  
 Organosilane bonded silica gel Odorless.  
 Organosilane bonded silica gel Odorless.
- Odor threshold** : Silica gel Not available.  
 Organosilane bonded silica gel Not available.  
 Organosilane bonded silica gel Not available.  
 Organosilane bonded silica gel Not available.  
 Organosilane bonded silica gel Not available.  
 Organosilane bonded silica gel Not available.
- pH** :

## Section 9. Physical and chemical properties

	<ul style="list-style-type: none"> <li>☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Melting point</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>&gt;1700°C (&gt;3092°F)</li> <li>&gt;1700°C (&gt;3092°F)</li> <li>&gt;1700°C (&gt;3092°F)</li> <li>&gt;1700°C (&gt;3092°F)</li> <li>&gt;1700°C (&gt;3092°F)</li> <li>&gt;1700°C (&gt;3092°F)</li> </ul>
<b>Boiling point</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>2230°C (4046°F)</li> <li>2230°C (4046°F)</li> <li>2230°C (4046°F)</li> <li>2230°C (4046°F)</li> <li>2230°C (4046°F)</li> <li>2230°C (4046°F)</li> </ul>
<b>Flash point</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Evaporation rate</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Flammability (solid, gas)</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Lower and upper explosive (flammable) limits</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Vapor pressure</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>
<b>Vapor density</b>	<ul style="list-style-type: none"> <li>: ☒ Silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> <li>Organosilane bonded silica gel</li> </ul>	<ul style="list-style-type: none"> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>

## Section 9. Physical and chemical properties

<b>Relative density</b>	: Silica gel	2.5 to 3.5
	Organosilane bonded silica gel	2.5 to 3.5
	Organosilane bonded silica gel	2.5 to 3.5
	Organosilane bonded silica gel	2.5 to 3.5
	Organosilane bonded silica gel	2.5 to 3.5
<b>Solubility</b>	: Silica gel	Insoluble in the following materials: cold water and hot water.
	Organosilane bonded silica gel	Insoluble in the following materials: cold water and hot water.
	Organosilane bonded silica gel	Insoluble in the following materials: cold water and hot water.
	Organosilane bonded silica gel	Insoluble in the following materials: cold water and hot water.
	Organosilane bonded silica gel	Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
<b>Auto-ignition temperature</b>	: Silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
<b>Decomposition temperature</b>	: Silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
<b>Viscosity</b>	: Silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.
	Organosilane bonded silica gel	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: Silica gel	No specific test data related to reactivity available for this product or its ingredients.
	Organosilane bonded silica gel	No specific test data related to reactivity available for this product or its ingredients.
	Organosilane bonded silica gel	No specific test data related to reactivity available for this product or its ingredients.
	Organosilane bonded silica gel	No specific test data related to reactivity available for this product or its ingredients.
	Organosilane bonded silica gel	No specific test data related to reactivity available for this product or its ingredients.
	Organosilane bonded silica gel	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

<b>10.2 Chemical stability</b>	: Silica gel Organosilane bonded silica gel Organosilane bonded silica gel Organosilane bonded silica gel Organosilane bonded silica gel Organosilane bonded silica gel	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Silica gel  Organosilane bonded silica gel  Organosilane bonded silica gel  Organosilane bonded silica gel  Organosilane bonded silica gel  Organosilane bonded silica gel	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Silica gel    Organosilane bonded silica gel    Organosilane bonded silica gel    Organosilane bonded silica gel    Organosilane bonded silica gel	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.



## Section 10. Stability and reactivity

Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

### 10.5 Incompatible materials : Silica gel

Organosilane bonded silica gel

Reactive or incompatible with the following materials:

oxidizing materials

Organosilane bonded silica gel

Reactive or incompatible with the following materials:

oxidizing materials

Organosilane bonded silica gel

Reactive or incompatible with the following materials:

oxidizing materials

Organosilane bonded silica gel

Reactive or incompatible with the following materials:

oxidizing materials

Organosilane bonded silica gel

Reactive or incompatible with the following materials:

oxidizing materials

Reactive or incompatible with the following materials:  
oxidizing materials

### 10.6 Hazardous decomposition products

: Silica gel

Organosilane bonded silica gel

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Organosilane bonded silica gel

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Organosilane bonded silica gel

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Organosilane bonded silica gel

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Organosilane bonded silica gel

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

## Section 11. Toxicological information

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
<b>Silica gel</b> Silica, amorphous, precipitated and gel	-	3	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

- : **Silica gel** Not available.
- Organosilane bonded silica gel Not available.
- Organosilane bonded silica gel Not available.
- Organosilane bonded silica gel Not available.
- Organosilane bonded silica gel Not available.
- Organosilane bonded silica gel Not available.

### Potential acute health effects

#### Eye contact

- : **Silica gel** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Organosilane bonded silica gel Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Organosilane bonded silica gel Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Organosilane bonded silica gel Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Organosilane bonded silica gel Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Organosilane bonded silica gel Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

## Section 11. Toxicological information

<b>Inhalation</b>	: Silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Organosilane bonded silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Organosilane bonded silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Organosilane bonded silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Organosilane bonded silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Organosilane bonded silica gel	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
<b>Skin contact</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
<b>Ingestion</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: Silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
	Organosilane bonded silica gel	Adverse symptoms may include the following: irritation redness
<b>Inhalation</b>	: Silica gel	Adverse symptoms may include the following: respiratory tract irritation coughing
	Organosilane bonded silica gel	Adverse symptoms may include the following: respiratory tract irritation coughing
	Organosilane bonded silica gel	Adverse symptoms may include the following:

## Section 11. Toxicological information

respiratory tract irritation  
coughing  
Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

<b>Skin contact</b>	:	☒ Silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
<b>Ingestion</b>	:	☒ Silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.
		Organosilane bonded silica gel	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	:	☒ Silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		Organosilane bonded silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		Organosilane bonded silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		Organosilane bonded silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		Organosilane bonded silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
		Organosilane bonded silica gel	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
<b>Carcinogenicity</b>	:	☒ Silica gel	No known significant effects or critical hazards.
		Organosilane bonded silica gel	No known significant effects or critical hazards.
		Organosilane bonded silica gel	No known significant effects or critical hazards.
		Organosilane bonded silica gel	No known significant effects or critical hazards.
		Organosilane bonded silica gel	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Mutagenicity</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
<b>Developmental effects</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
<b>Fertility effects</b>	: Silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.
	Organosilane bonded silica gel	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Silica gel Silica Gel	-	-	Not readily
<b>Organosilane bonded silica gel</b> Organosilane bonded silica gel	-	-	Not readily
<b>Organosilane bonded silica gel</b> Organosilane bonded silica gel	-	-	Not readily
<b>Organosilane bonded silica gel</b> Organosilane bonded silica	-	-	Not readily

## Section 12. Ecological information

gel			
<b>Organosilane bonded silica gel</b>			
Organosilane bonded silica gel	-	-	Not readily
<b>Organosilane bonded silica gel</b>			
Organosilane bonded silica gel	-	-	Not readily

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ )** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.



## Section 14. Transport information

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

<b>Classification</b>	:	☑ Silica gel	Fire hazard
		Organosilane bonded silica gel	Fire hazard
		Organosilane bonded silica gel	Fire hazard
		Organosilane bonded silica gel	Fire hazard
		Organosilane bonded silica gel	Fire hazard
		Organosilane bonded silica gel	Fire hazard

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
☑ Organosilane bonded silica gel Organosilane bonded silica gel	100	Yes.	No.	No.	No.	No.
Organosilane bonded silica gel Organosilane bonded silica gel	100	Yes.	No.	No.	No.	No.
Organosilane bonded silica gel Organosilane bonded silica gel	100	Yes.	No.	No.	No.	No.
Organosilane bonded silica gel Organosilane bonded silica gel	100	Yes.	No.	No.	No.	No.

## Section 15. Regulatory information

Organosilane bonded silica gel Organosilane bonded silica gel	100	Yes.	No.	No.	No.	No.
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### State regulations

- Massachusetts** :  The following components are listed: PRECIPITATED SILICA; Silica, precipitated
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: SILICA, AMORPHOUS, PRECIPITATE & GEL
- Pennsylvania** : The following components are listed: PRECIPITATED SILICA
- California Prop. 65**  
 Not available.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : Not determined.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: All components are listed or exempted.
- Malaysia** : All components are listed or exempted.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Thailand** :  Not determined.
- Turkey** : Not determined.
- United States** : All components are listed or exempted.
- Viet Nam** :  Not determined.

## Section 16. Other information

### History

- Date of issue** : 05/12/2017
- Date of previous issue** : 12/22/2015.
- Version** : 3

Indicates information that has changed from previously issued version.

## Section 16. Other information

### [Notice to reader](#)

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