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# ART SORB Material Safety Data Sheet

Effective Date: February 20, 2002

**Producer:**

Fuji Silysia Chemical LTD 5th Fl. Higashi-kan, Dai-niToyota Building, 4-11-27 Meiki,  
Nakamura-ku, Nagoya, Aichi, Japan Tel: +81 52 583 0451, Fax: +81 52 583 0455

**1) Product Identification:**

Synonyme: Silica, Amorphous; Silicic Acid; Amorphous Silicon Dioxide, Lithium Chloride

**2) Composition/Information on Ingredients**

Ingredient:	CAS No
Silica, Amorphous SiO <sub>2</sub>	7631.86.9
Lithium Chloride: LiCl	7447.41.8

**3) Hazards Identification:**

**Emergency Overview:** Affects respiratory system, causes irritation to eyes

**Potential Health Effects**

Inhalation:	May cause dryness and irritations to mucous m membrane, nose and throat. Symptoms may include coughing, sore throat, dyspnea, wheezing, and non-specific chest illnesses
Ingestion	No adverse effects expected
Skin Contact	May cause irritation with dryness and abrasion
Eye Contact	Causes irritation, redness and pain
Chronic Exposure	Repeated exposure may cause symptoms similar to the effects on the above
Aggravation of Pre-existing Conditions	No information found

#### 4) First Aid Measures:

Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	Give several glasses of water to dilute, If large amounts were swallowed, get medical advice.
Skin Contact	Wash exposed area with soap and water. Get medical advice if irritation develops
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately

#### 5) Fire Fighting Measures:

Fire	Not considered to be a fire hazard
Explosion	Not considered to be an explosion hazard
Fire Extinguishing Media	Use any means suitable for extinguishing surrounding fire
Special Information	Use protective clothing and breathing equipment appropriate for the surrounding fire

#### 6) Accidental Release Measures:

If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, collect in an empty container with no dispersion, and wipe off, suck up under the place without a wind. Watch your step.

#### 7) Handling and Storage:

Keep in a tightly closed container, stored in a cool, dry ventilated area. Protect against physical damage. Take precautions a static electric spark. Isolate from incompatible substances. Containers or this material may be hazardous when empty since they retain product residues(dust, solids); observe all warnings and precautions listed for this product.

#### 8) Exposure Controls/Personal Protection

##### Airborne Exposure Limits:

##### Amorphous Silica:

OSHA Silica gel - PEL - 6mg/m<sup>3</sup>

ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup>; TWA: inhalable particulate: 3 mg/m<sup>3</sup>

(TWA) respirable particulate

Lithium Chloride:

No OSHA vacated PELs are listed for this chemical

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Aitborne exposure Limits. 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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details

**Personal Respriators:**

If its use requires manual handling, wear log sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, use of an approved NIOSH / MSHA dust respirator is recommended. Wear goggles if dust causes eye discomfort.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area

**9) Physical and Chemical Properties**

Appearance    dry or humid, white bead  
Odor            Odorless  
Solubility      Silica gel: Insoluble; LiCl: soluble  
Boiling Point   2230°C as a Silica Gel  
Melting Point   1610°C as a Silica Gel

**10) Stability and Reactivity**

Stability	Stable under ordinary conditions of use and storage
Hazardous Decomposition Products	No information found
Hazardous Polymerization	Will not occur

Incompatibilities	Hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride and chlorine trifluoride
Conditions to Avoid	Heat, flame, ignition sources, dusting, moisture and incompatibilities

### 11) Toxicological Information

Animal Toxicology: No information found

#### Cancer Lists:

Ingredient	IARC Category
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### 12) Ecological Information

Environmental Fate: No information found

Environment Toxicity: No information found

### 13) Disposal Consideration

Whatever cannot be saved for recovery of recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14) Transport Information

Not regulated

### 15) Regulatory Information:

U.S: Federal Regulation	TSCA 8 (b) inventory: SILICA GEL
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WHIMIS (Canada)	Not controlled under WHMIS (Canada) CEPA DSL: SILICA GEL
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#### International Regulations

EINECS	Silica Gel 231-545-4
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DSCL (EEC

R36/37/38. Irritating to eyes, respiratory system and skin

**International Lists**

Australia (NICNAS): Silica Gel Japan: (MITI): Silica Gel Korea(TCCL):  
Silica Gel China: No products found

**16) Other Information**

Fuji Silysia Chemical provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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