



CONSERVATION BY DESIGN LIMITED

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Material Safety Data Sheet

Product Safety Data Sheet for ART-SORB

Date of Issue 10 - 07 - 1996

The following information includes safety data require by OSHA. The recipient of this safety data is responsible for passing the safety information on so that it reaches the ultimate user who may come into contact with the material.

I. Identification of Product & Company

Trade Name: ART-SORB

Chemical Name & Family: Synthetic Amorphous Silica, Lithium Chloride

Synonyms: Amorphous Silicon Dioxide, Silica Gel, Silicic Acid, Lithium Chloride

Chemical Notation of Structure: $SiO_2 \times H_2O + LiCl$

Ingredients: Synthetic Amorphous Silica, Lithium Chloride and absorbed moisture.
N. B. Synthetic amorphous silica not to be confused with:
• crystalline silica such as quartz, cristobalite or tridymite
• diatomaceous earth or other naturally occurring forms of amorphous silica which frequently contain crystalline forms.

CAS Registry No: Silica Gel: 63231 - 67 - 4 (Revised 1990 SiO₂ 112926 - 00 - 8)
Lithium Chloride: 7447 - 41 - 8

RTECSNo: Silica Gel: VV 7322000
Lithium Chloride: OJ 5950000

Details of Company: Conservation by Design Ltd.
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2 Precautions in Use

Do not ingest: Lithium Chloride is poisonous by ingestion, prolonged breathing of the dust or contact of the dust with the skin. The drying action of this material can cause irritation to the mucous membranes of the nose and throat and irritation to the skin. If its use requires manual handling wear long sleeves and close weave cotton gloves with tight fitting wristlets. If dusty conditions prevail use of an approved NIOSH / MSHA dust mask is recommended. When pouring into a container of flammable liquid ground both containers electrically to prevent a static electric spark.

3 - First Aid Measures

On Eye Contact	Immediately wash from eyes with large amounts of water, occasionally lifting upper & lower eyelids. If irritation persists seek medical attention.
On Skin Contact	Wash skin thoroughly with soap and water.
On Ingestion	Material will pass through the body normally.
On Inhalation	Remove to fresh air.

4 - Toxicology

This product and its components are not listed on the IARC, NTP or OSHA Carcinogens lists.

A - Animal Toxicology

Tests for DOT Hazard Classification: Not tested. Not classified as hazardous.

B- Human Toxicology

Silica gel is a synthetic amorphous silica not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects. Silica gel is considered by Fuji Silysis to be a nuisance dust. In the activated form silica gel acts as a desiccant and can cause a drying irritation of the mucous membranes and skin in cases of severe exposure. Fuji Silysis knows of no medical conditions abnormally aggravated by exposure so silica gel.

Lithium chloride is poisonous by ingestion. It can cause severe eye and skin irritation. It is classified as moderately toxic.

5 - Environmental Data

Typical Chemical & Physical Information

Appearance:	Dry, white beads or powder
pH in 5% slurry:	3.5 - 8.5
Odour:	None
Specific Gravity:	2.1
Bulk density:	Approximately 0.50 kg/litre
Solubility in water	Silica gel base • insoluble Lithium chloride will leech out.
Approximate Analysis:	SiO ₂ (ignited basis) - 90 - 93 % LiCl - 7 - 10 %