2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

MATERIAL SAFETY DATA SHEET

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Bellasil® Effective Date: January 1, 2013

1. Product Identification

Synonyms: Silica, Amorphous; Silicic Acid; Amorphous Silicon Dioxide CAS No: 7631-86-9 Molecular Weight: 60.08 Chemical Formula: SiO2

2. Composition/Information on Ingredients			
Ingredient	CAS No	Percent	
Silica, Amorphous	7631-86-9	99.5 - 100%	

3. Hazards Identification Emergency Overview

AFFECTS RESPIRATORY SYSTEM. CAUSES IRRITATION TO EYES.

Potential Health Effects

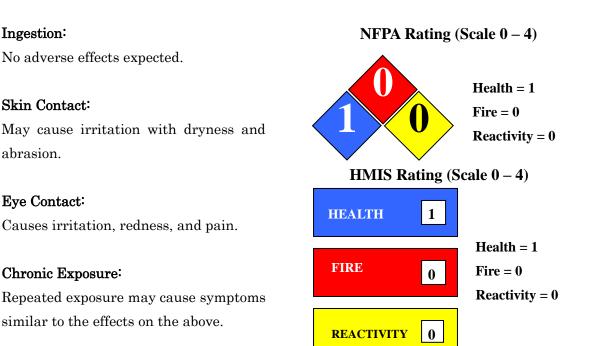
Inhalation:

May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat, dyspnea, wheezing, and non-specific chest illnesses.

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FUJI SILYSIA CHEMICAL LTD.

2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN



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 drink 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:

2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

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 glove with tight-fitting wristlets.

Let any dust settle, then vacuum or sweep up material and place into a suitable disposal container. Avoid generating further dusty conditions by using a vacuum or wet sweeping.

Wear gloves, safety glasses or goggles and dust mask.

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 of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Amorphous Silica:

- OSHA Silica gel $PEL-80 g/m^3\,/\% SiO_2$
- ACGIH Threshold Limit Value (TLV): 10 mg/m3 (TWA) inhalable particulate; 3 mg/m3 (TWA) respirable particulate.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne 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 Respirators:

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

FUJI SILYSIA CHEMICAL LTD.

2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

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, white powder Odor: Odorless. Solubility: Insoluble in water. Specific Gravity: 2.20 pH: 3.0-8.0 Boiling Point: 2230 deg. C Melting Point: 1610 deg. C Vapor Density (Air=1):No information found. Vapor Pressure (mm Hg): 10 @ 1732 deg.C Evaporation Rate (BuAc=1): No information found.

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 incompatibles.

11. Toxicological Information

ANIMAL TOXICOLOGY:

FUJI SILYSIA CHEMICAL LTD.

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2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

TESTS FOR DOT HAZARD CLASSIFICATION:

1-hour	LC50 (rat) > 2mg/l	
48-hour	Oral	LD50 (rat) est. $> 31,600 \text{ mg/kg}$
48-hour	Dermal	LD50 (rabbit) est. $> 2,000$ mg/kg
NT / 1 1	1	• •, ,

Not considered an ocular irritant.

TESTS FOR FDA APPROVAL FOR USE IN FOODS:

LD50 (mice)	8,000 mg/kg (limit of test)	
LD50 (rats)	4,500 mg/kg (limit of test)	
6 months ¹ feeding	ng tests (rats) at levels up to 10% of diet produced n	o effects.
	Cancer Lists	
Ingradiant	INDO	Catagor

Ingredient	IARC	Category
Silica, Amorphous	(7631-86-9)	3

12. Ecological Information

Environmental Fate: No information found. Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or 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 may differ from federal 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 Regulations WHMIS (Canada)

TSCA 8 (b) inventory: SILICA GEL Not controlled under WHMIS (Canada) CEPA DSL: SILICA GEL

FUJI SILYSIA CHEMICAL LTD.

2-1846 KOZOJI-CHO, KASUGAI, AICHI, 487-0013 JAPAN

International regulations	
EINECS	SILICA GEL 231-545-4
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
	Philippines (RA6969): SILICA GEL
	China: No products were found

16. Other Information

Fuji Silysia Chemical Ltd. 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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