



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification.

Product Name	SEKADO-KW
Manufacturer	Shinagawa Chemicals Co.,Ltd.
Address	2-1 Otemachi 2-chome, Chiyoda-ku, Tokyo 100-0004 JAPAN 8F, Shin-Otemachi Building.
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Date of issue(revision)	August 31,2007(April 30, 2013)
Product Use	Desiccant agent.

(Drying of various gases. Removal of the acid and dehydration in a solvent.)

2. Hazards Identification

GHS classification

Flammable gases	No classification
Oxidizing gases	No classification
Gases under pressure	No classification
Flammable liquids	No classification
Flammable Solids	No classification
Oxidizing liquids	No classification
Corrosive to metal	No classification
Acute toxicity	
Oral	Not classified
Dermal	Not classified
Inhalation(gases)	No classification
Inhalation(vapours)	Not classified
Inhalation(dusts, mists)	No classification
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	No classification
Sensitization	
Respiratory organs	Not classified
Skin	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

Specific target organ/systemic toxicity (single exposure)	Classification not possible
Specific target organ/systemic toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Aquatic environment	
Acute hazards	Classification not possible
Chronic hazards	Classification not possible

◇GHS label elements

Alumina-silica gel(Allophane)	Not applicable
Hazard statement	Not in particular

Notes

<If in eyes>

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, Get medical advice/attention.

After handling the product, wash the hands.

Other hazards which do not result in GHS Classification	Not in particular
Outline of possible emergency cases	Not in particular

3. Composition/information on ingredients

Single component • mixture of classification. Single component

HS.Code : 250840

Ingredient name	Wt(%)	CAS No.	Note
Alumina-silica gel※ (Allophane)	~98	12172-71-3	$Al_2O_3 \cdot (SiO_2)_{1.3-2} \cdot 2.5-3(H_2O)$

※Alumina-silica gel obtained by refining weathered volcanic ash deposit.

The Law concerning the Examination and Regulation of Manufacture etc. of Chemical Substances : Allophane(N.A.).

Industrial Safety and Health Law : Allophane(N.A.).

Ingredient under control of laws and regulations

Ingredients	Industrial Safety and Health Law	PRTR Law
Alumina-silica gel (Allophane)	Not applicable to a labelable Substance/noticeable substance	Not applicable to a designated Chemical substance

4. First-Aid Measures

Inhalation	Remove the affected person to fresh air and get medical attention if necessary.
Skin	Wash affected area with soap and water (Avoid contact with the skin)
Eyes	Immediately rinse the eye with clean water for at least 15 minutes. While rinsing the eyes, keep the eyes open so that the water covers the entire eye surface. Because of possibility of damaging the eyeball, do not have the victim rub or shut eyes. Immediately get medical attention. There may be cases when no pain immediately manifest and the power of vision is not affected, but later a disorder manifests, therefore, infallibly get medical advice. Remove contact lenses if present and easy to do and continue rinsing.
Ingestion	Immediately call a doctor/physician. Rinse mouth.
Special precaution to physician	None in particular

5. Fire-Fighting Measures

Fire extinguisher	Use extinguishant in accord with the situation.
Hazard of a fire	Nonflammable(May take out toxic gas during a fire.)
Fire Fighting Method	Fire fighting perform from the windward.
Protection	Wearing a protective clothing.

6. Accidental Release Measures

Personal precaution/protective equipment and emergency measures

Declare off-limits for those unconcerned in the place in the surroundings of occurrence of leakage by means of roping or the like. For work, wear protective gloves made of rubber and goggle type eye protecting glasses.

Environmental precautions

Take due measures for preventing the effluent of the product from entering in the rivers and affecting the environment.

Method and materials for containment and cleaning up

Scoop out or sweep together the leaked product and recover into paper bags or drums the scattered product is swept up and recovered into an empty container that can be hermetically sealed.

Prevention of secondary hazards

None in particular

7. Handling and Storage

Handling

Technical measure

Implement the Engineering Measure listed in “8. EXPOSURE CONTROLS/PERSONAL PROTECTION”, and wear personal protective equipment. After handling, fully wash hands and face, and gargle.

Local and entire ventilation

For handling, work is made in a place under local ventilation.

Precaution

None in particular

Safe handling advice

None in particular

Storage

Store in a dark, cool place and away from moisture.

8. Exposure Controls/Personal Protection

Equipment measures

Near the work place, install facilities for hand and face washing.

Hermetically sealed apparatus, equipment, or local ventilator is used.

Standard control concentration

Product When dust is generated in the work environment, the standard control concentration of soil and stone, rock, mineral substance or carbon dust(E)= $2.9/(0.22Q+1)$ mg/m³, Q = Content of free silicic acid (unit:%).

Occupational exposure limits

Product Japan Society for Occupational Health
Not listed in the Japan Society for Occupational Health Advice.

Product ACGIH
Not listed in the ACGIH Advice.

Protective equipment

Respiratory protection

Dust mask, self-contained-compressed air breathing apparatus, and the like.

Hand protection Gloves made of rubber or resins.

Eye protection Goggle type eye protection glasses

Skin and body protection Personal protective clothing, safety shoes

Appropriate hygienic measures After handling, fully wash hands and gargle, then drinking and eating are made.

9. Physical and Chemical Properties

Form	Granule
Color	Ocher
Odor	Odorless
PH	6.0~6.8
Melting Point	Not applicable
Boiling Point	Not applicable
Initial boiling Point	Not applicable
Boiling range	Not applicable
Flash point	Not applicable
Spontaneous ignition temp	Not applicable
Flammability	Not flammable
Vapour pressure	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Specific gravity	Bulk density 0.45~0.50g/cm ³
Solubility	Insoluble in water
Solubility for the solvent	Insoluble
Partition coefficient:	Not applicable
Octanol/water	Not applicable
Auto-ignition temp	Not applicable
Other data	None in particular

10. Stability and Reactivity

Stability	Stable under normal storage and handling conditions.
Dangerous harmful	Stable under normal storage and handling conditions.
Reaction possibility	None in particular
Condition to avoid	None in particular
Mix hazardous substance	None in particular
Dangerous harm	None in particular
Decomposition product	None in particular

11. Toxicological Information

Acute toxicity	No knowledge
Skin corrosion/Irritation	No knowledge
Serious eye damage/Irritation	No knowledge
Respiratory or skin sensitization	No knowledge
Mutagenicity	No knowledge
Carcinogenicity	No knowledge
Reproductive toxicity	No knowledge

STOT-single exposure	No knowledge
STOT-repeated exposure	No knowledge
Aspiration hazard	No knowledge

12. Environmental Information

Ecotoxicological properties	
Fish	No data
Crustaceans	No data
Aquatic plants	No data
Persistence/degradability	No data
Bioaccumulative potential	No data
Mobility in soil	No data
Other adverse effects	No data

13. Disposal Considerations

Residual wastes	For the work, consign it to a professional disposal trader of wastes who is authorized by the municipal governor.
Contaminated Packaging	For disposal of empty containers, the disposal is made after completely removing the contents. For consigning of disposal of a contaminated container, consign it to a professional disposal transporter or trader of industrial wastes who is authorized by the municipal governor.

14. Transport Information

Domestic regulations	Refer to Item 15 Regulatory information
Specific safety measures	None in particular
Specific Precautions	Before transport, confirm that there is no damage and leakage in the container. Load the cargo precluding falling, dropping, and damaging, and prevention of collapse of cargo is surely made. Shipment containers are carefully handled avoiding falling and impacting.

15. Regulatory Information

Waste Disposal and Public Cleaning Law(Industrial Wastes)
Water Pollution Control Law(Items including hydrogen ion concentration)

16. Other Information

References
Journal of Occupational Health Vol. 48(2006)
Notification No.26, Ministry of Labour, March 27, 1995(extra edition No.55)
ACGIH, TLVs and BEIs Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure indices(2006)

Chemical Industry Data Vol. 17 No. 5, National Institute of Chemical Technology,
Agency of Industrial Science and Technology.

- Did not have the data with the mixture except a part, made this MSDS based on the danger of the component, noxious information.
- Make the mention content based on a document, information available at present, but values such as content, the physicochemical property are not guarantee levels.
- Because not enough, the noxious evaluation is careful about the handling .
- This MSDS revises it when additional data were provided.