

Safety Data Sheet

1. Chemical Products & Company Identification

Name of chemical (Product name)	CERATIGHCA NO.2
Company name of supplier	SK Kaken Co., Ltd
Address	3-5-25 Nakahozumi, Ibaraki-city, Osaka
Division	Technical management team, R&D Centre
TEL	+81-72-643-7100, (At night)+81-72-643-6245
FAX	+81-72-641-5212
E-mail address	msds@sk-kaken.jp
Emergency number	See the above
Recommended use	Fire-resistant coating material
Restrictions on use	In case of using for purpose other than recommended use, an expert's decision shall be sought.
Reference No.	080001-00-11

2. Hazards Identification

【GHS classification】

Flammable liquid	Not applicable to category
Acute toxicity (oral)	Classification not possible
Acute toxicity (dermal)	Classification not possible
Acute toxicity: inhalation (air)	Classification not possible
Acute toxicity: inhalation (vapours)	Classification not possible
Acute toxicity: inhalation (dust, mist)	Classification not possible
Skin corrosion/irritation	Category 1
Eye damage/irritation	Category 1
Sensitization: respiratory	Classification not possible
Sensitization: skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Category 1A
Reproductive toxicity	Classification not possible
Specific target organ/systemic toxicity (Single exposure)	Classification not possible
Specific target organ/systemic toxicity (Repeated exposures)	Category 1 (respiratory organ)
Aspiration toxicity	Not applicable to category
Aquatic environmental toxicity (Acute)	Classification not possible
Aquatic environmental toxicity (Chronic)	Classification not possible
Hazardous to the ozone layer	Classification not possible

【GHS label elements】

Hazard symbols



Signal word Danger

Hazardous information

- Causes severe skin burn and eye damage
- Causes serious eye damage
- May cause cancer
- Causes damage to organs (respiratory organ) through prolonged or repeated exposures

Precautionary statement

« Prevention »

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands thoroughly after handling.
- DO NOT breathe dust/fume/gas/mist/vapours/spray.
- Obtain instruction manuals before use.
- DO NOT handle until all safety precautions have been read and understood.
- DO NOT eat, drink or smoke when using this product.

Methods and materials for containment and cleaning up

- Collect the outflow in an airtight container and remove to a safe place.
- Collect with a shovel. In case of washing, be cautious so that contaminated water may not flow into rivers and cause environmental pollution.

7. Handling and Storage

Handling

Technical measures

- Make area where the material is handled KEEP OUT except authorized personnel.
- Handle the material in well-ventilated place.
- Seal a container of the material tightly whenever not in use.
- In a confined area, provide adequate local exhaust ventilation and wear protectors.

Precautions for safe handling

- DO NOT handle until all safety precautions have been read and understood.

Avoidance of contact

- Water becomes alkaline when mixed with the product. Wear protective gear and avoid inhalation and contact with skin, mucous membrane, eyes, and clothes.

Hygiene measures

- After handling, thoroughly wash a face and hands, and gargle.
- DO NOT eat, drink or smoke when using this product.

Storage

Conditions for safe storage

- Protect the material from rain and keep indoors with low humidity. DO NOT leave on the ground.
- As this material is for professional use, keep it out of reach of outsiders and children in a fixed place.

8. Exposure Control / Personal Protection

Control parameters (Occupational exposure limit values, Biological limit values)

INGREDIENT NAME	CONTROLLED DENSITY	ACCEPTABLE DENSITY	EIGHT-HOUR CONCENTRATION STANDARD VALUE	SHORT-TERM CONCENTRATION STANDARD VALUE
Quartz(Silica)	-	0.025 mg/m ³	-	-
Portland cement	-	10 mg/m ³	-	-

FACILITIES

- In case of working indoors, set up facilities that do not directly expose workers to vapour, or that has local ventilation to protect workers from exposure to vapour.

PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

- Wear appropriate respiratory protection depending on the situation.
- If workers are exposed to dust, consider wearing respiratory protective equipment (such as a dust mask).
- When selecting a dust mask, pay attention to the following points:
 - Do not use in areas where the oxygen concentration is below 18%.
 - In environments where harmful gases are present, do not use a dust mask; consider using other appropriate respiratory protective equipment.
 - Choose a gas mask with performance and structure suitable for the work that has passed the type test conducted by a registered testing organization. When doing so, refer to the data described in the instruction manual, etc.

FOR HAND

- Wear protective gloves when workers are exposed to substances that affect the skin, such as skin corrosion/irritation, or chemicals that can be absorbed through the skin and cause health problems.
- Consider wearing impermeable protective gloves.
- When selecting protective gloves, keep the following points in mind:
 - Refer to the permeation resistance class etc. provided in the instruction manual, set a sufficient usage time for the work, and use protective gloves within that time range.

FOR EYE AND FACE

- Wear goggles.

FOR SKIN AND BODY

- Wear protective clothing to avoid direct skin contact.

SPECIAL PRECAUTIONS

- No information

9. Physical and Chemical Properties

Physical state	: Powder
Colour	: White
Odour	: Slight cement odour
Melting Point/Freezing Point	: NONE

Boiling point or initial boiling point and boiling range

	: NONE
Flammability	: NONE
Explosive limits or upper/lower flammability	: NONE
Flash point	: NONE
Spontaneous ignition point	: No data available
Decomposition temperature	: No data available
pH	: Water becomes alkaline when mixed with the product.
Kinematic viscosity	: No data available
Solubility	: No data available
n-Octanol/Water Partition Coefficient	: NONE
Vapour pressure	: NONE
Density and/or relative density	: 0.500 - 0.700 (apparent specific gravity)
Relative gas density	: NONE
Particle characteristics	: No data available

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Reactions will not occur under normal conditions.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: No data available
Incompatible hazardous substances	: No data available
Hazardous decomposition products	: This material is incombustible.
Other hazard information	: No data available

11. Toxicological Information

Harmful effect of constituent substance (For hazardous material)

Material name	Acu tx/Orl (LD50:)	Acu tx/Skn (LD50:)	Acu tx/Inh (LC50:)	Acu tx/Vpr (LC50:)
Quartz(Silica)	-	-	N/A	N/A
Portalnd cement	-	-	N/A	N/A

Material name	Acu tx/Dus (LC50:)	Skn cr/Irr	Ey dmg/irr	respiratory organ	Skn snstz	Grm cl mut	Crcngncty
Quartz(Silica)	-	-	-	-	-	Category 2	Category 1A
Portalnd cement	-	Category 1	Category 1	-	-	-	-

Material name	Reproduc- tive toxicity	Orgn/sngl	Orgn/rpeat	Asprt hzrd
Quartz(Silica)	-	-	Category 1	-
Portalnd cement	-	-	Category 3	Category 1

[Abbreviation]

Acu tx/Orl: Acute toxicity/Oral(mg/kg) Acu tx/Skn:Acute toxicity/Skin(mg/kg) Acu tx/Inh:Acute toxicity/Inhalation(ppm)

Acu tx/Dus:Acute toxicity/Dust,mist(ppm) Skn cr/Irr: Skin corrosion/irritation Ey dmg/irr:Eye damage/irritation

Rspr snstz:Respiratory sensitization Skn snstz:Skin sensitization Grm cl mut:Germ cell mutagenicity

Crcngncty:Carcinogenicity

Rprd txcy:Reproductive toxicity Orgn/sngl:Specific target organ/systemic toxicity (single exposure)

Orgn/rpeat:Specific target organ/systemic toxicity (repeated exposures)

Asprt hzrd : Aspiration hazard

12. Ecological Information

Ecotoxicity	No data available
Persistence/degradability	No data available
Bioaccumulation potential	No data available
Mobility in soil	No data available

Harmful effect of constituent substance (For hazardous material)

Material name	Aquatic environmental toxicity		Hazardous to the ozone layer
	Short term (Acute)	Long term (Chronic)	
Quartz(Silica)	N/A	-	-
Portland cement	-	-	-

13. Disposal Considerations

Residues

- Consign disposal of waste such as paint and container to an authorized disposal agent.
- Waste water resulted from cleaning containers and machinery shall not be drained to ground or ditch without treatment.
- Dispose of waste resulted from draining, incineration, etc. in accordance with the law of disposal and cleaning or relevant law, or consign the waste to a disposer.

Contaminated container and packing

- Empty containers shall be disposed of after removing the contents completely in accordance with relevant law and the local government standards.
- The waste shall be disposed of by an authorized disposal agent.

14. Transport Information

UN No.	-
UN proper shipping name	-
UN classification	-
Packing group	-

Specific precautionary transport measures and conditions

Comply with general notice of handling and storage.

Put the material on board after confirming there is no leakage in containers. Take preventive measures against load shifting so that the containers will not tumble, fall or be damaged.

Domestic restriction

Land transportation	Comply with the Fire Service Act, Industrial Safety and Health Law, and Poisonous and Deleterious Substances Control Act if applicable.
Marine transportation	Comply with Ship Safety Act.
Aviation transportation	Comply with Civil Aeronautics Act.
Emergency Response Guide No.	-

15. Regulatory Information

Industrial Safety and Health Law	Labeling materials, notification materials Ordinance on Prevention of Hazards Due to Dust Carcinogenic substance (Substance: See Section 3) Chemical substances that cause skin disorders, etc.
Poisonous and Deleterious Substances Control Act	N/A
Fire Service Act	Nonhazardous material
Pollutant Release and Transfer Register Law (PRTR Law)	N/A
Ship Safety Act	N/A
Civil Aeronautics Act	N/A

16. Other Information

References

Chemical Substances Database for MSDS	: Japan Paint Manufacturers Association
MSDS and Label Preparation Guidebook (For mixture of paint)	: Japan Paint Manufacturers Association
Published data on GHS hazard classification results provided by	: National Institute of Technology and Evaluation
Published data on Chemical Substances information provided by	: Japan Industrial Safety and Health Association
Japan Advanced Information Center of Safety and Health	
International Chemical Safety Cards (ICSC)	
MSDS information	: Japan Industrial Safety and Health Association

[NOTE]

The information contained herein except some is based on the data available in various technical publications and is not based on the safety test to a product. In addition, the evaluation of hazard and noxiousness may not be perfect and the information contained herein is not all. Therefore, no warranty is expressed or implied regarding the safety and quality. This SDS provides selected Japanese regulatory information of this product, including its components. This is not intended to include all regulations. Recipients are advised to confirm their suitability and compatibility of use basing on their conditions and environmental factors by complying with all their country's regulatory requirements.