

Safety Data Sheet (SDS)

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1. Identification

Product

Description FLASH Pearl
Order code T798500, Y900693, Y900698

Company Information

Company Name NAKANISHI INC.
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Recommended use and usage restrictions Dental material. For use only by dental professionals.

2. Hazard identification

Significant hazards and effects

Specific hazards

GHS classification N/A

Physical and Chemical hazards

Explosives N/A
Flammable/Ignitable gas N/A
Flammable/Ignitable aerosol N/A
Burnable/oxidized gas N/A
High-pressure gas N/A
Ignitable liquid N/A
Flammable solid N/A
Autoreactive chemical N/A
Pyrophoric liquid N/A
Pyrophoric solid N/A
Self-heating chemical N/A
Water-reactive flammable chemical N/A
Oxidizing liquid N/A
Oxidizing solid N/A
Organic peroxide N/A
Metal-corrosive chemical N/A

Hazards to health

Acute toxicity (oral) N/A
Acute toxicity (percutaneous) N/A
Acute toxicity (inhalation : gas) N/A
Acute toxicity (inhalation : vapor) N/A
Acute toxicity (inhalation : dust, mist) N/A
Skin corrosivity/Irritation N/A
Serious damage to eyes/Eye irritation N/A
Respiratory sensitization N/A
Skin sensitization N/A
Germline mutagenicity N/A
Carcinogenicity N/A

Reproductivity	N/A
Effects on breast-feeding	N/A
Target organ/Systemic toxicity (single exposure)	N/A
Target organ/Systemic toxicity (repeated exposure)	N/A
Hazards to suction aspiration	N/A
Hazards to environment	
Hazards to water environment (acute)	N/A
Hazards to water environment (chronic)	N/A
Hazards to the Ozone layer	N/A

Labeling elements

Pictogram	N/A
Signal word	N/A
Hazard statements	N/A
Precautionary statement	
Prevention	No precautionary phrases
Response	N/A
Storage	N/A
Disposal	N/A

3. Composition/information on ingredients

Substance / Mixture	Mixture
General product description	Dental material
Ingredients and composition	

Chemical name (another name)	CAS No.	Concentration (mass %)	Danger class./Cmnt.
Calcium carbonate calculated	471-34-1	ca. 94%	
Calcium fluoride	7789-76-6	<0.5%	
Calcium nitrate	10124-37-5	<0.5%	○
Ammonium nitrate	6484-52-2	<2.0%	
Tribasic calcium phosphate	7758-87-4	<0.5%	
Strontium carbonate	1633-05-2	<1.5%	

4. First-aid measures

General	<ul style="list-style-type: none"> Similar to other dust nuisance; may cause irritation effects. Move the sufferer to fresh air, keep him/her warm and at rest.
Inhalation	<ul style="list-style-type: none"> Similar to other dust nuisance; may cause irritation to the respiratory tract. Move the sufferer to fresh air, keep him/her warm and at rest.
Skin contact	<ul style="list-style-type: none"> Wash skin thoroughly with soap and water.
Eye contact	<ul style="list-style-type: none"> Flush with large amounts of water (open eyelids) for at least 15 minutes. Get medical advice if irritation persists.
Ingestion	<ul style="list-style-type: none"> Give him/her plenty of water or milk to drink.
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"> N/A
Protection of first-aiders	<ul style="list-style-type: none"> N/A
Notes to physician	<ul style="list-style-type: none"> N/A

5. Fire-fighting measures

Suitable extinguishing medi	<ul style="list-style-type: none"> Use extinguishing media appropriate for surrounding fire.
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Unsuitable extinguishing media	▪ N/A
Specific hazards during firefighting	▪ The product is not combustible.
Specific extinguishing methods	▪ N/A
Special protective equipment for firefighters	▪ N/A

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	▪ Wear protective laboratory glasses.
Methods and materials for containment and cleaning up	▪ Use mechanical handling equipment. Collect it in a dry container. Finally, flush the area with water.
Additional advice	▪ N/A

7. Handling and storage

Handling	
General Precautions	▪ N/A
Advice on safe handling	▪ N/A
Avoidance of contact	▪ N/A
Product Transfer	▪ N/A
Storage	
Conditions	▪ Store it in a dry place.
Packaging material	▪ N/A
Container Advice	▪ N/A

8. Exposure controls/personal protection

TWA	▪ 0.1mg/m ³ or less
Exposure Control	▪ Wash with water.
Respiratory Protection	▪ Wear a dust-protective mask.
Hand protection	▪ N/A
Eye protection	▪ Wear protective laboratory glasses.
Skin and body protection	▪ N/A

9. Physical and chemical properties

Appearance	▪ Powder
Colour	▪ Grayish
Odour	▪ Odorless
Odour Threshold	▪ N/A
pH	▪ ca. 8.5 (10%)
pour point	▪ N/A
Initial boiling point and boiling	▪ N/A
Flash point	▪ N/A
Evaporation rate	▪ N/A
Flammability (solid, gas)	▪ N/A
Upper explosion limit	▪ N/A
Lower explosion limit	▪ N/A
Vapour pressure	▪ N/A
	N/A

Relative vapour density	▪ N/A
Relative density	▪ N/A
Density	▪ ca. 2.5g/cm ³
Solubility(ies)	
Water solubility	▪ Slightly
Solubility in other solvents	▪ Soluble in acids
Partition coefficient: noctanol/	▪ N/A
Auto-ignition temperature	▪ N/A
Viscosity	
Viscosity, dynamic	▪ N/A
Viscosity, kinematic	▪ N/A
Conductivity	▪ N/A
Decomposition temperature	▪ N/A

10. Stability and reactivity

Chemical stability	▪ Stable.
Possibility of hazardous reactions	▪ May ignite upon contact with fluorine gas.
Conditions to avoid	▪ N/A
Incompatible materials	▪ N/A
Hazardous decomposition products	▪ Calcium oxide and carbon dioxide are formed upon heating / reaction with acids.

11. Toxicological information

Basis for assessment	▪ Similar to other dust nuisance; may cause irritation effects.
Symptoms of	▪ N/A
Acute toxicity	
Product:	
Acute oral toxicity	▪ N/A
Acute inhalation toxicity	▪ N/A
Acute dermal toxicity	▪ N/A
Skin corrosion/irritation	
Product:	▪ N/A
Serious eye damage/eye	
Product:	▪ N/A
Respiratory or skin sensitisation	
Product:	▪ N/A
Germ cell mutagenicity	
Product:	▪ N/A
Carcinogenicity	
Product:	▪ N/A
Reproductive toxicity	
Product:	▪ N/A
STOT - single exposure	
Product:	▪ N/A
STOT - repeated	
Product:	▪ N/A
Aspiration toxicity	
Product:	▪ N/A
Further information	
Product:	▪ N/A

12. Ecological information

Basis for assessment	▪ N/A
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	▪ N/A
Toxicity to crustacean (Acute toxicity)	▪ N/A
Toxicity to algae/aquatic plants (Acute toxicity)	▪ N/A
Toxicity to fish (Chronic toxicity)	▪ N/A
Toxicity to crustacean (Chronic toxicity)	▪ N/A
Toxicity to microorganisms (Acute)	▪ N/A
Persistence and degradability	
Product:	
Biodegradability	▪ N/A
Bioaccumulative potential	
Product:	
Bioaccumulation	▪ Remarks: Does not bioaccumulate.
Partition coefficient: octanol/water	▪ N/A
Mobility in soil	
Product:	
Mobility	▪ Remarks: Slowly soluble in water.
Other adverse effects	
no data available	
Product:	
Additional ecological information	▪ There are no specific environmental data for the product. Release to water systems will cause a slight increase in alkalinity.
Breakdown	▪ Mineralizes.

13. Disposal considerations

Disposal methods	
Waste from residues	▪ Not classified as hazardous waste.
Contaminated	▪ N/A
Local legislation	▪ N/A

14. Transport information

National Regulations	
Hazchem Code	▪ N/A
International Regulation	
ADR	▪ Not regulated as a dangerous good
IATA-DGR	▪ Not regulated as a dangerous good
IMDG-Code	▪ Not regulated as a dangerous good
RID	▪ Not regulated as a dangerous good
Transport in bulk according to the IBC Code	
Pollution category	▪ Not applicable
Ship type	▪ Not applicable

Product name	▪ Not applicable
Special precautions	▪ Not applicable
Special precautions for	▪ Not applicable

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Fire Defense Law: Hazardous Material

PRTR: Non-Hazardous Material

Environmental Quality Standards Regarding Air Pollution (Environment Agency Notification No.25)

16. Other information

Reference	▪ Recommendation of Occupational Exposure Limits (2008-2009), Japan Society of Occupational Health, J ▪ Occup Health, 2007 ; 50 : 426-443
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.