

Material Safety Data Sheet (MSDS)

Issued on October 10, 2013

Revised on October 10, 2013

1. Product and Company Information

Product

Description Perio-Mate Powder
Order code Y900938

Company Information

Company Name NAKANISHI INC.
Address 700 Shimohinata Kamuna-shi Tochigi 322-8666, Japan (HQ)
Dept. Quality Assurance Dept.
TEL +81(0)289-64-3380 (HQ) +81(0)289-64-7277 (QA)
FAX +81(0)289-62-5636 (HQ) +81(0)289-64-3890 (QA)

Recommended use and usage restrictions : Dental material. For use only by dental professionals.

2. INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
GLYCIN	56-40-6	>99
SILANE TREATED SILICA	68909-20-6	<1

3. Hazards information

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Powder

Odor, Color, Grade: White, odorless

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4. FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact:

Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures:

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus(SCBA).

Unusual Fire and Explosion Hazards:

Non-flammable: ordinary combustible material

* See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Observe precautions from other sections.

* In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

7. HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Avoid prolonged or repeated skin contact.

7.2 STORAGE

Store away from heat. Store out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Do not ingest.

8.3 EXPOSURE GUIDELINES

None Established

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Powder
Odor, Color, Grade:	White, odorless
General Physical Form:	Solid
Autoignition temperature:	<i>Not Applicable</i>
Flash Point:	<i>Not Applicable</i>
Flammable Limits - LEL:	<i>Not Applicable</i>
Flammable Limits - UEL:	<i>Not Applicable</i>
Boiling point:	<i>Not Applicable</i>
Density:	1.595 g/ml
Vapor Density:	<i>Not Applicable</i>
Vapor Pressure:	<i>Not Applicable</i>
Specific Gravity:	1.4-1.6
pH:	5.9-6.4
Melting point:	232-236
Solubility In Water:	225 g/l
Evaporation rate:	<i>Not Applicable</i>
Kow - Oct/Water partition coef:	<i>Not Applicable</i>
Viscosity:	<i>Not Applicable</i>

10. STABILITY AND REACTIVITY**Stability:** Stable.**Materials and Conditions to Avoid:****10.1 Conditions to avoid**

Heat

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.**Hazardous Decomposition or By-Products**

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion

11. Toxicological information

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method:**

For quantities <100 lbs. (50kg): dispose of waste product in a sanitary landfill. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

* Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORT INFORMATION**15. REGULATORY INFORMATION****311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
 Immediate Hazard - Yes Delayed Hazard - No

CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

This material contains one or more substances not listed on the TSCA Inventory.
Commercial use of this material is regulated by the FDA.

The components of this product are listed on the Canadian Domestic Substances List

16. OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Copyright was modified.

Section 8: Skin protection phrase was modified

Section 13: Waste disposal method information was modified.

Section 8: Eye/face protection information was modified.

Section 9: Property description for optional properties was added.

Section 10.1 Conditions to avoid heading was added.

Section 10.2 Materials to avoid heading was added.

Section 6: Personal precautions information was added.

Section 6: Environmental procedures information was added.

Section 6: Methods for cleaning up information was added.

Section 10: Materials to avoid physical property was added.

Section 10: Conditions to avoid physical property was added

Section 8: Hand protection information was added.

Section 6: Release measures information was deleted.

Section 10: Materials and conditions to avoid physical property was deleted.

Remarks	This material safety data sheet was issued based on the documents/information available at that point. Release of new findings or revision of conventional theory could change this information. When you wish to make important decisions with this document, it is recommended to have a good look at the sources or conduct a test to verify it. The numeric data in this document is not guaranteed. The cautions are for when used under normal conditions. For special handling, appropriate safety measures for the use/usage are required. This MSDS is for reference only, does not guarantee anything.
---------	--
