

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Periogen - Powder
Revision date 07-01-2018
Version # 02
CAS # Mixture
Product code UPC 850401002000
Product use Dental tartar dissolving oral rinse
Manufacturer/Supplier Periogen Company
1625 East Main Street, El Cajon
CA 92021
contact@periogen.com
Contact Person: John Andersen
Phone 619.275.5200
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2. Hazards Identification

Physical state Solid.
Appearance White powder.
Emergency overview CAUTION

May cause minor irritation on eye contact.

OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

Routes of exposure

Eye contact.

Eyes

This product may cause slight irritation to the eyes.

Skin

No adverse effects due to skin contact are expected.

Inhalation

No adverse effects due to inhalation are expected.

Ingestion

No adverse effects due to ingestion are expected.

Target organs

Eye

Signs and symptoms

Eye may become red, tear, and become painful.

Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Citric acid	77-92-9	20 - 40
Sodium tripolyphosphate	7758-29-4	20 - 40
Tetrapotassium pyrophosphate	7320-34-5	20 - 40

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin contact

Get medical attention if irritation develops and persists.

Inhalation

No specific first aid measures noted. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth thoroughly.

Notes to physician

Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

Flammable properties	The product is not flammable. No unusual fire or explosion hazards noted.
Extinguishing media	
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Protection of firefighters	
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	Not available.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions	Wear protective clothing as described in Section 8 of this MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	In the event of accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods for cleaning up	Sweep up or gather material and place in appropriate container for disposal. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Avoid contact with eyes. Avoid dust formation. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. See Section 8 of the MSDS for Personal Protective Equipment.
Storage	Keep container dry. Keep away from heat.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering controls	No particular ventilation requirements.
Personal protective equipment	
Eye / face protection	If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
Skin protection	Not normally needed.
Respiratory protection	In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m ³ .
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	White powder.
Color	White.
Odor	None.
Odor threshold	Not available.
Physical state	Solid.
Form	Powder.
pH	7.6
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	Not available.

Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	This product is stable under expected conditions of use.
Conditions to avoid	Heat.
Incompatible materials	Strong acids, alkalis and oxidizing agents.
Hazardous decomposition products	None.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
Tetrapotassium pyrophosphate (7320-34-5)	Acute Dermal LD50 Rabbit: > 4640 mg/kg
Citric acid (77-92-9)	Acute Oral LD50 Rat: 6730 mg/kg
Acute effects	May cause discomfort if swallowed.
Local effects	Causes eye irritation.
Chronic effects	Prolonged or repeated contact may dry skin and cause dermatitis.
Carcinogenicity	Not classified.
Mutagenicity	Ames test: Negative. Not expected to be mutagenic.
Reproductive effects	No data available.
Symptoms and target organs	Exposed individuals may experience eye tearing, redness, and discomfort.

12. Ecological Information

Ecotoxicological data

Components	Test Results
Sodium tripolyphosphate (7758-29-4)	EC50 Water flea (Ceriodaphnia dubia): 238.35 - 321.01 mg/l 48 hours
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	The propellant is not readily biodegradable.
Bioaccumulation / Accumulation	No data available.
Partition coefficient (n-octanol/water)	Not available.
Mobility in environmental media	The product is water soluble and may spread in water systems.

13. Disposal Considerations

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Sodium tripolyphosphate: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

US - Massachusetts RTK - Substance: Listed substance

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

HMIS® ratings Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 1
Flammability: 0
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 07-01-2018