

DENTSPLY/International

Safety Data Sheet

DENTSPLY/Professional

1. Product and Company Identification

Product Name Sensodyne® NUPRO® 5000 ppm Toothpaste with NovaMin®	MSDS Code Number 801362
Trade Name & Synonyms/ Product Code Sensodyne® NUPRO® / 801542	Date of Last Revision 07/21/2010
Chemical Name 5000 ppm Fluoride Toothpaste	Manufacturer DENTSPLY Professional
C.A.S. Number N/A	Address 1301 Smile Way, York, PA 17404
Grades or Minor Variant Identities Mint	Information Telephone Number 1-800-989-8826 or 717-767-8502
Product Use (for Canada) Daily use toothpaste for reduction of caries, remineralization and desensitization	Emergency Telephone Number 1-800-989-8826 or 717-767-8502
U.N. Number: N/A	U.N. Dangerous Goods Classification: N/A

2. Composition Of Ingredients

Hazardous Components/Ingredients	C.A.S. Number	Exposure Limits	%
Sodium Fluoride	7681-49-4	2.5 mg/m ³ (OSHA PEL) 2.5 mg/m ³ ACGIH TLV TWA 1 mg/m ³ skin DFG MAK 2.5 mg/m ³ UK WEL	1.1
Glycerin	56-81-5/ 200-289-5	5 mg/m ³ TWA PEL (respirable fraction) 10 mg/m ³ TWA TLV	55-65
Calcium Sodium phosphosilicate (NovaMin®)	65997-18-4 or 359684-27-8	None Established	5
Sodium Lauryl Sulfate	151-21-3	None Established	1
Titanium Dioxide	13463-67-7	15 mg/m ³ TWA PEL (total dust) 10 mg/m ³ TWA TLV 1.5 mg/m ³ (respirable dust) DFG MAK 10 mg/m ³ (inhalable); 4 mg/m ³ (respirable dust) TWA UK WEL	1
Non-Hazardous Ingredients	Proprietary	N/A	Balance

3. Hazard Identification

Emergency Overview: Small amounts may be irritating to skin and eyes while large amounts may be toxic if ingested. Long term exposure could lead to fluorosis.

Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Irritation	Single	Mild	None	N/A
Skin	Dermatitis	Single or Repeated	Mild	Dermatitis	N/A
Inhalation	N/A	N/A	N/A	N/A	N/A
Ingestion	May cause salivation, nausea, or vomiting. Large quantities may cause abdominal pain, weakness, tremor, spasm or convulsions. Death can result from respiratory paralysis.	Single	Mild to severe.	None	N/A
Other	N/A				

Medical Conditions Aggravated by Exposure: Persons with pre-existing skin disorders, eye problems, or impaired respiratory function can be more susceptible to health effects associated with overexposures to this product.

Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No

Potential Environmental Effects: N/A

NFPA Hazard Classification Ratings (Scale 0-4), Health = 1 , Fire = 1 , Reactivity = 0 Specific = N/A

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4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Immediately flush with copious quantities of water for 15 minutes.	Seek medical attention if irritation or discomfort persists after flushing.	N/A
Skin	Wash skin with soap and water.	Seek medical attention if skin irritation remains red and/or inflamed for more than 30 minutes.	N/A
Inhalation	N/A	N/A	N/A
Ingestion	Not a hazard under normal use conditions. If large amounts ingested, drink 1 or 2 glasses of water.	Call a physician immediately.	N/A
Other	N/A		

Note to Physicians (Treating, Testing and Monitoring): Treat symptoms and eliminate overexposure.

5. Fire and Explosion Data

Flashpoint Method: Negligible fire and explosion hazard when exposed to flame	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Auto ignition Temperature: N/A	Other: N/A				
Flame Propagation or Burning Rate (for Solids): N/A	Properties Contributing to Fire Intensity: N/A	Flammability Classification: 1 (NFPA rating)					
Extinguishing Media: Carbon dioxide, dry chemical foam. Water may be used to cool containers to prevent pressure build-up if exposed to extreme temperatures.	Extinguishing Media to Avoid: None						
Protection and Procedures for Firefighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.							
Unusual Fire and Explosion Hazards: None known							

6. Accidental Release Measures

Containment Techniques: Wear appropriate protective clothing as described in Section 8. Wipe up or collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Prevent spill from entering sewers and water courses.	Spill/Leak Clean-up Procedures and Equipment: Wash and wipe area with water.	Evacuation Procedures: Clear impacted area and contact appropriate emergency personnel.	Special Instructions: N/A	Reporting Requirements: Report releases as required by U.S. Federal, State and Local authorities.
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7. Handling and Storage

Handling Practices and Warnings: Wash thoroughly after handling. Avoid contact with skin and eyes. If a spill occurs, wipe affected surface down with a wet cloth or mop to remove hazardous chemical residue. Keep away from children. Do not puncture or incinerate containers even when empty.	Storage Practices and Warnings: Store between 40°F and 85°F. Store away from food and beverages.
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8. Exposure Control / Personal Protection

Ventilation: No special ventilation normally required. For bulk handling, use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.	Other Engineering Controls: N/A
Routes of Entry	PPE for Emergencies
Eye/Face	None required for normal use. Safety glasses recommended for bulk handling.
Skin	None Required for normal use. Wear impervious gloves such as natural rubber if needed for bulk handling.
Inhalation	None should be needed for normal use. If the exposure limits are exceeded an approved respirator with particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.
Body Protection	None needed for normal use. Impervious clothing as needed to avoid contamination of personal clothing for bulk handling.
General Hygiene Considerations and Work Practices: Observe normal care when working with chemicals.	
Protective Measures During Repair and Maintenance of Contaminated Equipment: N/A	
Other Protective Measures and Equipment: Wash thoroughly after handling.	

9. Physical and Chemical Characteristics

Appearance: White to off-white, liquid/viscous paste.	Odor: Odor is consistent with flavoring
Normal Physical State: Liquid/viscous paste	Melting Point: Unknown
Specific Gravity: ~1.3 g/cm ³	pH: 7.5-10.5 at 20-22°C
Vapor Pressure (mm Hg): Unknown	Evaporation Rate (Butyl Acetate =1): Unknown
Other: N/A	

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10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): Avoid oxidizing agents and acids.

Hazardous Products Produced During Decomposition:

May produce carbon monoxide, carbon dioxide and acrolein. Contact with acids may form hydrogen fluoride.

Hazardous Polymerization: May Occur May Not Occur

Conditions to Avoid: Unknown

Stability? Stable Unstable

Conditions to Avoid: Unknown

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:

Potential Health Effects:

Eyes: Direct contact may cause irritation with redness and tearing. Injury may occur from mechanical irritation.

Skin: Prolonged skin contact may cause irritation.

Inhalation: No adverse effects expected.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, headache, nausea and diarrhea.

Chronic Health Effects: Repeated excessive levels of glycerin have been shown to cause kidney, liver and gastrointestinal effects in studies with laboratory animals. Prolonged overexposure to sodium fluoride may cause cardiac disorders and cause damage to the kidney and brain.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, NTP or the EU directive.

Mutagenicity: No data available.

Toxicological Data:

Glycerin:

Draize test, rabbit, eye: 126 mg = Mild

Draize test, rabbit, eye: 500 mg/24H = Mild

Draize test, rabbit, skin: 500 mg/24H = Mild

Inhalation, rat LC₅₀: >570 mg/m³/1H

Oral, mouse LD₅₀: 4090 mg/kg

Oral, rabbit LD₅₀: 27 g/kg

Oral, rat LD₅₀: 12600 mg/kg

Skin, rabbit LD₅₀: >10 g/kg

PEG 400:

Oral, Rat LD₅₀: 30200 mg/kg

Oral, Mouse LD₅₀: 28915 mg/kg

Oral, Rabbit LD₅₀: 28600 mg/kg

Skin, Rabbit LD₅₀: 20000mg/kg

Inhalation, Rat LC₅₀: 13 ppm/ 8H

Sodium Fluoride:

Oral Rat LD₅₀: 52 mg/kg

Eye Rabbit (Standard Draize): 20 mg/24H = Moderate

Sodium Lauryl Sulfate:

Oral, Rat LD₅₀: 1288 mg/kg

Inhalation, Rat LC50: 3900 mg/m 1H

Titanium Dioxide:

No Data Available

Calcium Sodium Phosphosilicate (NovaMin®):

No Data Available

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12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: No data available

Glycerin:

96 Hr LC₅₀ rainbow trout: 50-67 mg/L

96 Hr LC₅₀ goldfish: >5000 mg/L

PEG 400:

24 Hr LC₅₀ goldfish: >5000 mg/L

Sodium Fluoride:

48 hour EC50 Daphnia magna (water flea) : 338 mg/L

96 hour LC50 Lepomis macrochirus (bluegill) : > 530 mg/L

96 hour EC50 Selenastrum capricornutum (green algae) : 272 mg/L

LD50, oral (goat, sheep) 100 mg/kg; LD50, oral (wild bird) 110 mg/kg

Sodium Lauryl Sulfate:

96 Hr LC50 fathead minnow (fry): 10.2 mg/L

96 Hr LC50 fathead minnow (juvenile): 17 mg/L

96 Hr LC50 fathead minnow (adult): 22.5 mg/L

96 Hr LC50 rainbow trout: 4.6 mg/L (Static)

Titanium Dioxide:

No Data Available

Calcium Sodium Phosphosilicate (NovaMin®):

No Data Available

13. Disposal Considerations

Regulations: Dispose of in accordance with U.S. Federal, State and Local regulations.

Properties (Physical/Chemical) Affecting Disposal: N/A

14. Transport Information

Regulated for Shipping: No - Not regulated as a DOT hazardous material.	Proper Shipping Name: N/A	Packing Group: N/A
Do Changes in Quantities, packaging, or shipment method change product classification? No	Hazard Class: N/A	UN Number: N/A
DOT Labels Required (49CFR172.101): None required	Other: N/A	

15. Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: Contains no chemicals subject to CERCLA Section 103.

Section 313 Toxic Chemicals: Contains no chemicals subject to SARA Section 313.

Section 302 Extremely Hazardous Substances (TPQ): No components on the list.

EPA Toxic Substances Control Act (TSCA) Status: Product contains the following ingredients found on the TSCA list: Sodium fluoride (CAS# 7681-49-4, Section 8aPAIR)

U.S. State Regulations California Proposition 65: No components on the list.

International Regulations:

Canadian Environmental Protection Act: No components on the list.

European Community Labeling: None required.

European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements.

Other: N/A

16. Other Information

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.