

SAFETY DATA SHEETS

This SDS packet was issued with item:

077681190

N/A



M A T E R I A L S A F E T Y D A T A S H E E T

24-Hour Emergency #: (U.S.) 1-800-535-5053 / (Outside U.S.) 352-323-3500

SECTION I: Product & Company Identification

Product Name: **Air Polishing Powder**
Catalog Number: **039015**
Manufactured by: Young Dental Manufacturing
13705 Shoreline Court East
Earth City, MO 63045
1.800.325.1881

SECTION II: Health Hazard Information

Appearance: White crystalline powder with mint odor

Primary Routes of Exposure:

Inhalation: None known

Skin Contact: Not a skin irritant

Eye Contact: Slight, transient irritation is possible

Ingestion: Material is non-toxic. Small amounts (1 – 2 tablespoons) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury.

HMIS Rating: Health (0); Fire (0); Reactivity (0)

SECTION III: Hazardous Components

COMPONENT	CAS No.	OSHA PEL	ACGIH TWA	%
Sodium bicarbonate	144-55-8	N/A	N/A	N/A
Sodium saccharin	128-44-9	N/A	N/A	N/A

Not hazardous under OSHA Standard 29CFR1910.1200

Not a WHMIS controlled substance

IARC concludes that saccharin cannot be classified as a carcinogen. NTP concludes that saccharin can reasonably be anticipated to be carcinogenic. Through its intended use and any inadvertent low level long term ingestion, the product is not expected to result in any hazardous condition.

SECTION IV: First Aid Procedures

Inhalation: N/A

Eye Contact: Flush eyes immediately with lukewarm (not hot) water for at least 15 minutes. Get medical attention if irritation develops.

Skin Contact: N/A

Ingestion: DO NOT INDUCE VOMITING. If large amounts of the material are swallowed, administer water if person is conscious. Never give anything by mouth to an unconscious person. **Note to physician:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

SECTION V: Fire Fighting Measures

Extinguishing media: Non-combustible material. Use suitable media for surrounding fire.

Special fire-fighting instructions: Carbon dioxide may be generated, making necessary the use of a self-contained breathing apparatus and full protective equipment (Bunker Gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 1564°F (851°C) is a respiratory, eye and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide dusts.

Fire and explosion hazards: N/A

SECTION VI: Accidental Release Measures

In Case of Spill: Sweep up spilled powder into dry, clean containers. Wash uncontaminated residue with water.

SECTION VII: Handling and Storage

Handling and Storage: Store in cool, dry areas and away from incompatible substances. Sodium bicarbonate, on thermal decomposition or reaction with acids, will yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide and oxygen levels have been determined to be safe.

Other Precautions: Read and observe all labeled precautions.

SECTION VIII: Personal Protection

Eye Protection: No special requirements. Goggles or safety glasses recommended when handling bulk material or when dusts or mists are generated.

Protective Gloves: No special requirements. Recommended general purpose gloves when handling dry product. Impervious gloves when working with solutions.

Ventilation: Normal room ventilation

Respiratory Protection: Dust mask required if total dust level exceeds 10 mg/m³.

Other Protective Clothing: Clothes sufficient to avoid contact

SECTION IX: Physical and Chemical Properties

Physical State	Solid
Solubility in Water	8.6 g/100 ml @ 68°F (20°C)
pH (1% w/v)	8.2
Specific gravity (Water = 1)	2.2
Apparent Density (g/cc)	~1
Appearance	White crystalline powder with mint odor

SECTION X: Stability and Reactivity

Stability	Stable
Reactivity	Reacts with acids to yield carbon dioxide
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Heating above 228°F (109°C) may cause dangerous levels of carbon dioxide gas to be generated which presents a hazard in confined spaces. Thermal decomposition will also yield sodium carbonate which may be irritating to eyes, skin and respiratory tract.
Materials to Avoid	Acids, temperatures over 228°F (109°C)

SECTION XI: Toxicological Information

Eye Effects: The principal ingredient, sodium bicarbonate, was minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits). Similar effects would be anticipated for Prophy Polishing Powder.

Skin Effects: Sodium bicarbonate was not a skin irritant or dermally toxic.

Acute Oral Effects: For Prophy Powder, Acute Oral Limit Test (rat): LD₅₀ > 5 g/kg. For sodium bicarbonate, LD₅₀ = 7334 mg/kg.

Acute Inhalation: For sodium bicarbonate, the measured LC₅₀ (rat) > 4.74 mg/l. Household products containing levels of sodium bicarbonate similar to Prophy Powder each had an LC₅₀ > 200 mg/l (nominal).

SECTION XII: Ecological Information

Aquatic Toxicity:

Daphnids: EC₅₀ = 4100 mg/l

Bluegill: LC₅₀ = 7100 mg/l

Rainbow Trout: LC₅₀ = 7700 mg/l

Persistence: This product is not expected to persist in the environment.

Bioaccumulation: This product is not expected to bioaccumulate.

SECTION XIII: Disposal Considerations

Bury in a secured landfill in accordance with all local, state and federal environmental regulation. Empty packages may be discarded as general trash.

SECTION XIV: Transport Information

DOT Shipping Name: Not regulated

Technical Shipping Name: Shipped as Prophy Polishing Powder, Flavored/Sweetened

DOT Hazard Class: None

UN/NA Number: None

Hazardous Substance/RQ: None

DOT Label: None

DOT Placard: None

SECTION XV: Regulatory Information

TSCA: The ingredients in Prophy Powder are reported in the EPA TSCA Inventory List

OSHA: Not hazardous under 29CFR1910.1200

CERCLA Reportable Quantity (40CFR302.4): This product contains sodium saccharin which has a reportable quantity of 100 lbs. CERCLA requires that any release of a hazardous substance in a quantity equal to or exceeding the reportable quantity in any 24 hour period be reported to the National Response Center in Washington, DC (800) 424-8802.

SARA Title III:

Section 302, Extremely Hazardous Substances (40CFR355): None

Section 311/312, Hazardous Categories (40CFR370): Not a health hazard; not a physical hazard

Section 313, Toxic Chemicals (40CFR372): None

SECTION XVI: Other Information

None

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Young Dental Manufacturing makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

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YOUNG™

DENTAL MANUFACTURING

S A F E T Y D A T A S H E E T

SECTION I: Identification

Product Identifier:

Product Name: Air Polishing Powder
Part/Item Number: 039015

Recommended Use of the Substance or Mixture and Restrictions on Use:

Recommended Use: Dentistry
Restrictions on Use: For professional use only

Details of the Supplier:

Distributed by: Young Dental Manufacturing
13705 Shoreline Court East
Earth City, MO 63045
1.800.325.1881

Emergency Phone Number:

Infotrac:
24-Hour Number- (U.S.) 1-800-535-5053
Outside U.S.- 1-352-323-3500

SECTION II: Hazard(s) Identification

Classification of the Substance or Mixture:

Health Hazard	Physical Hazard
Not Applicable	Not Applicable

Label Elements:

Hazard Statement(s): Not applicable

Precautionary Statement(s):

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original container.
P235+P410 Keep cool. Protect from sunlight.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330 IF SWALLOWED: Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P342+P313 If experiencing respiratory symptoms: Get medical advice/attention.
P391 Collect spillage.
P402 Store in a dry place.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved waste disposal plant.

Other Hazards- Not applicable

SECTION III: Composition/Information on Ingredients

Mixture:

Component	CAS #	WT%	Classification
Sodium Bicarbonate	144-55-8	80-100	Not applicable

SECTION IV: First-Aid Measures

Inhalation - Move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention.

Skin contact - Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye contact – Flush eyes with water for 15 minutes as a precaution. Get medical attention if irritation develops and persists.

Ingestion – Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION V: Firefighting Measures

Extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Arising from the Substance or Mixture: No further relevant information available.

Advice for Fire-Fighters:

Precautions for Fire Fighters - Wear self-contained breathing apparatus for firefighting if necessary.

SECTION VI: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal according to official regulations.

SECTION VII: Handling and Storage

Precautions for Safe Handling: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from foodstuffs, beverages and animal feed.

Conditions for Safe Storage, Including Any Incompatibilities: Store only in the original package. Keep container tightly closed in a dry and well-ventilated place. Protect from heat and direct sunlight. Store away from food and beverages.

SECTION VIII: Exposure Controls/Personal Protection

Control Parameters:

Occupational Exposure Limits:		
Component	OSHA PEL	ACGIH TLV
Sodium Bicarbonate	None Established	None Established

Exposure Controls:

Appropriate Engineering Controls - Handle in accordance with good industrial hygiene and safety practice. Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its source. Provide eyewash and safety shower if contact or splash hazard exists. Wash hands before breaks and at the end of work.

Individual Protection Measures (PPE) - Wear safety glasses, glove material impermeable and resistant to the product, protective work clothing, and NIOSH (US) or CEN (EU) approved respirators and components.

Environmental Exposure - Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION IX: Physical and Chemical Properties

Information on Physical and Chemical Properties:	
Appearance:	Fine granular white powder
Odor:	Spearmint
Odor Threshold:	Not determined
pH:	8.3 (1% solution) at 25°C
Melting point/freezing point:	Decomposes
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined
Evaporation rate (Butyl Acetate =1):	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or exposure limits:	Not determined
Vapor pressure:	Not determined
Vapor density (Air = 1):	Not determined
Relative density:	2.16 g/cm ³
Solubilit(ies):	50 g/L
Partition coefficient: n-octano/water	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Specific gravity (Water = 1):	Not determined

SECTION X: Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No further relevant information available.

Conditions to avoid: Exposure to moisture. Heat, flames and sparks.

Incompatible materials: Strong acids, strong oxidizing agents.

Hazardous decomposition products: Oxides of sodium and carbon

SECTION XI: Toxicological Information

Potential Health Effects:

Eye Contact – May cause mild eye irritation.

Skin Contact – May cause mild skin irritation. Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.

Ingestion - May injure mouth, throat, and gastrointestinal tract. Large ingested doses have produced systemic alkalosis and expansion in extracellular fluid volume with edema.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or possible carcinogen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION XII: Ecological Information

Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION XIII: Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

Contaminated Packaging: Dispose of as unused product.

SECTION XIV: Transport Information

Not regulated

SECTION XV: Regulatory Information**US Federal Regulations:**

TSCA - This product is an FDA regulated device and not subject to TSCA regulations.

CERCLA - This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.

SARA 313 TOXIC CHEMICALS - The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR 372): None.

SARA 311/312 HAZARDS - This product is an FDA regulated device and not subject to reporting requirements.

International Regulations:

CANADIAN ENVIRONMENTAL PROTECTION ACT - This product is a medical device and not subject to chemical notification requirements.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) - This product is a medical device and not subject to chemical notification requirements.

SECTION XVI: Other Information**NFPA Rating:**

Health Hazard 0

Fire Hazard 0

Reactivity Hazard 0

Supersedes: 12 March 2013

Date Revised: 2 January 15

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