

MATERIAL SAFETY DATA SHEET
**Prophy Powder
Polishing Powder**
1-Identification

Manufacturer : President Dental Gmbh
Zehenstadelweg 7,
81247 , Munchen
Germany

Telephone : +49 89 127 660 240

Fax : +49 89 127 660 269

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2. Composition/Information on Ingredients

CHEMICAL INGREDIENT (% by weight)

CAS Number	
Sodium bicarbonate	>95%
144-55-8	
Flavor Blend	1%
Contains Sodium Saccharin	<0. 5%
128-44-9	

Not hazardous under OSHA Standard 29 CFR 1910.1200
Not a WHMIS controlled Substance
The ingredients in this product are not listed as carcinogens or potential carcinogens by IARC, NTP, OSHA, NIOSH and ACGIH

3. Hazards Identification**EMERGENCY OVERVIEW**

White crystalline powder consisting primarily of Sodium Bicarbonate, Spearmint odor and flavor, not a fire hazard, no significant health or environmental effects associated with this material.

HMIS Rating

Health	0
Fire	0
Reactivity	0

Potential Health Effects

EYE: Slight, transient irritation is possible
SKIN CONTACT: Not a skin irritant
INGESTION: material is non-toxic. Small amounts (1-2 table spoons) swallowed during normal handling

operations is unlikely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury.

INHALATION: None known

SUBCHRONIC EFFECTS/CARCINOGENICITY: This product contains Sodium Saccharin. For hazardous communication purposes: An IARC monograph has been published concluding that saccharin cannot be classified as a carcinogen. The NTP delisted saccharin in 1997. Through its intended use and low level long term ingestion, the product is not expected to result in any hazardous condition.

4. First Aid Measures

EYES: Check for and remove contacts. Flood eyes with clean flowing water, low pressure and luke warm (not hot) if possible, occasionally lifting eyelids.

INGESTION: If large amounts of this material are swallowed, do not induce vomiting. 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.

5. Fire And Explosion Hazards Data

FLAMMABLE PROPERTIES FLAMMABLE
LIMITS

FLASH POINT: Not combustible LFL: Not applicable

METHOD USED: Not applicable UFL-Not applicable

EXTINGUISHING MEDIA: Noncombustible material, use extinguishing media appropriate for surrounding fire.
FIRE-FIGHTING INSTRUCTIONS: Carbon Dioxide may be generated making necessary the use of a self-contained breathing apparatus (SCBA) and full protective equipment (9Bunker Gear). Carbon Dioxide is an asphyxiate at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 156F is a respiratory, eye and skin irritant. Avoid inhalation eye and skin contact with sodium oxide dusts.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Non known

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Scoop up into dry, clean containers. Wash away uncontaminated residue with water.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state and Federal regulations.

OTHER PRECAUTIONS: None known

7. Safe Handling And Storage

Store in cool and dry areas. Do not store near incompatible substance (see section 10)

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 determined to be safe.

8. Exposure Control Personal Protection

RESPIRATORY PROTECTION (SPECIFY TYPE): Dust mask required if total dust levels exceed 10mg/m³.

PROTECTIVE GLOVES: No special requirements
Recommend general purpose gloves for handling dry product. Impervious gloves when working with solutions.

EYE PROTECTION: No special requirements.

Recommend safety glasses when handling bulk material or when dusts or mists are generated.

OTHER PROTECTIVE CLOTHING OR

EQUIPMENT: No special requirements. Full cover clothing is sufficient.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements with respect to chemical exposure beyond those provided above.

9. Physical/Chemical Characteristics

APPEARANCE	: White
crystalline powder	
ODOR	: Spearmint
PHYSICAL STATE	: Solid
pH AS IS	: Not applicable
pH (1% SOLN. W/v)	: 8.2
VAPOR DENSITY	: Not applicable
VAPOR PRESSURE	: Not applicable
BOILING POINT	: Not applicable
MELTING POINT	: Not applicable
SOLUBILITY IN WATER	: 8.6 g
/100ml @ 68F	
SPECIFIC GRAVITY (Water=1)	: 2.2
APPARENT DENSITY (g/cc)	:
Approximately 1.	
VAPOR PRESSURE (mm Hg.)	: Not applicable
% VOLATILE	: Not applicable
VOLATILE ORGANIC COMPOUNDS:	Not applicable

10. Stability And Reactivity Data

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Temperature above 228 F

INCOMPATIBILITY (MATERIALS TO AVOID):

Reacts with acids to yield carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS:

Yields about 1% per hour Sodium carbonate when temperature is raised to 190 F. Dust may then be irritating to eyes, skin and respiratory tract.

Heating above 228F may cause dangerous levels of CO₂ gas to be generated which presents a hazard in confined spaces.

HAZARDOUS POLYMERIZATION: Not applicable

11. 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. The flavor ingredient may cause mild irritation.

SKIN EFFECTS: Sodium bicarbonate was not a skin irritant or dermally toxic.

ACUTE ORAL EFFECTS: For Prophy Powder, Acute Oral Limit Test-rat: LD50 > 5g/Kg. for Sodium bicarbonate, the defined LD50 = 7334mg/Kg

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

12. Ecological Considerations

AQUATIC TOXICITY:

Daphnids: EC 50 = 4100mg/l.

Bluegill: LC 50 = 7100mg/l.

Rainbow Trout LC 50 = 7700mg/l.

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

BIOACCUMULATION: This product is not expected to bio accumulate.

13. Disposal Considerations

Bury in a secured landfill in accordance with all local, state and federal environmental regulations. Empty package discarded as general trash.

14. Transportation Information

D.O.T.SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Shipped as Prophy Powder

D.O.T. HAZARD CLASS: none

U.N./N.A. NUMBER: none

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. LABEL: None

D.O.T. PLACARD: None