

MATERIAL SAFETY DATA SHEET

MSDS Number: MSDS 01-3

Issue date: 01/07/10

Page 1 of 4

SECTION I – Product Identification

Product Name : **JETSTREAM POWDER-AIRPOLISHING POWDER**
Operating powder for the Jetpolisher2000 & Jetsonic2000M units

Emergency Telephone: ++ 972- 3- 9049668 - Dr. A. Edel

SECTION II – Composition/Information on Ingredients

CHEMICAL INGREDIENT(%by weight)		<u>CAS Number</u>
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

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White crystalline powder consisting primarily of Sodium Bicarbonate

Spearment 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 injection, the product is not expected to result in any hazardous condition.

SECTION IV – 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.

SECTION V – 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: Non combustible 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 (Bunker Gear). Carbon Dioxide is an asphyxiant 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

SECTION VI–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

SECTION VII–SAFE HANDLING AND STORAGE

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

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.

SECTION VIII– 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 (of solutions) 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.

SECTION IX – 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

Page 3 of 4

APPARENT DENSITY (g/cc): Approximately 1.
VAPOR PRESSURE (mm Hg.): Not applicable
% VOLATILE: Not applicable
VOLATILE ORGANIC COMPOUNDS: Not applicable

SECTION X – 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 228 F may cause dangerous levels of CO₂ gas to be generated which presents a hazard in confined spaces.
HAZARDOUS POLYMERIZATION: Not applicable

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. 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 INHALATION: 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)

SECTION XII – 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 bioaccumulate.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

SECTION XIV – TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated
TECHNICAL SHIPPING NAME: Shipped as Jetstream airpolishing powder, flavored /sweetened, or H.S. Airpolishing 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

SECTION XV – REGULATORY INFORMATION

TSCA: The ingredients in Prophy Powder are reported in the EPA TSCA Inventory List.
The ingredients in this product are not listed as carcinogens or potential carcinogens by IARC group I or II, OSHA: Not hazardous under 29 CFR 1910.1200 Subpart Z, and ACGIH Appendix A.
CERCLA REPORTABLE QUANTITY (40 CFR 302.4): 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 (40 CFR 355): None
Section 311/312, Hazardous Categories (40 CFR 370): Not a health Hazard: and not a physical hazard.
Section 313, Toxic Chemicals(40 CFR 372): None

SECTION XVI – MISCELLANEOUS INFORMATION

SUPERCEDES DATE 01/07/07

REASON FOR UPDATE: Update Issue Date to include Ecological information
For additional non-emergency health, safety and environmental information tel +972-4-9049668 or write to Deldent Ltd.
19 Keren Kayemet Street
Petach Tikva
49372
ISRAEL

This product safety data sheet is offered solely for your information, consideration and investigation. Deldent limited provides no warranties, either express or implied and assumes no responsibility for the accuracy or completeness of the data contained herein Deldent Ltd. urges persons receiving this information to make their own determination as to the information suitability for their particular application.