

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

072668853

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

072668804 072668812 072668820 072668838 072668846 072668861



# 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: **ZOOBY 1.23% APF Foam**  
Catalog Numbers: **611001, 612001, 613001, 614001, 615001, 616001**  
Distributed by: Denticator  
13705 Shoreline Court East  
Earth City, MO 63045  
1.800.325.1881

## SECTION II: Health Hazard Information

**Toxic if swallowed. Contact with acids produce extremely toxic gas.**

**Appearance:** White aerosol foam with characteristic odor

**Routes of entry:** Ingestion, skin contact, eye contact, inhalation

### **Symptoms of Overexposure:**

**Eye contact:** Irritation and redness

**Skin contact:** Mild irritation at contact site

**Ingestion:** Throat irritation.

**Inhalation:** No symptoms under normal use conditions.

## SECTION III: Hazardous Components

Component	CAS #	OSHA PEL	ACGIH TVL	Risk Phrases <small>*See Sec. XV for full R phrases</small>	% by Weight
Sodium Fluoride*	7681-49-4	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup> (TWA)	[T] R25 [-] R32 [Xi] R36/38	1-5%
Isobutane	75-28-5	None listed	2400 mg/m <sup>3</sup> (TWA) 9600 mg/m <sup>3</sup> (STEL)	[F] R12	1-5%

**\*Sodium Fluoride:** ORL MUS LD<sub>50</sub>: 57 mg/kg  
ORL Rat LD<sub>50</sub>: 52 mg/kg  
SCU Rat LD<sub>50</sub>: 175 mg/kg

## **SECTION IV: First Aid Procedures**

**Eye Contact:** Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Wash immediately with soap and water. Seek medical attention if irritation persists.

**Ingestion:** DO NOT INDUCE VOMITING. If an amount greater than a normal dose is swallowed, drink large quantities of water, milk, or several ounces of milk of magnesia. Contact Poison Control Center. Never give anything by mouth to an unconscious or convulsing person. Seek medical attention.

**Inhalation:** None needed under normal use conditions. If irritation develops, move patient to fresh air and consult a physician.

## **SECTION V: Fire Fighting Measures**

<b>Flash Point</b>	Not determined
<b>Extinguishing Media</b>	Any suitable type for the surrounding fire should be used. Use water to cool containers
<b>Special Fire-Fighting Procedures</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes
<b>Unusual Fire and Explosion Hazards</b>	Product emits toxic fumes upon combustion

## **SECTION VI: Accidental Release Measures**

**In case of spill:** Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method. Contain spillage using bunding.

## **SECTION VII: Handling and Storage**

Keep out of reach of children. Keep container closed when not in use. Turn leaking containers leak-side up to prevent the escape of liquid. Store in a cool, well-ventilated area. Must only be kept in original packaging. Avoid exposure to heat. Avoid direct contact. Avoid mist formation. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not pierce or burn, even after use.

## **SECTION VIII: Personal Protection**

**Personal Protective Equipment:** Gloves, safety glasses, protective clothing. Ensure the presence of an eye bath.

**Ventilation:** Ensure sufficient ventilation of the area.

**Respiratory Protection:** None required.

**Work/Hygienic Practices:** Use common sense for safety. Avoid skin and eye contact.

## **SECTION IX: Physical and Chemical Properties**

<b>Solubility</b>	Soluble in water
<b>Boiling Point</b>	Not determined
<b>Specific Gravity</b>	Not determined
<b>Melting Point</b>	Not determined
<b>Evaporation Rate</b>	Moderate
<b>Vapor Pressure/Density</b>	Not Determined
<b>Physical State</b>	White aerosol foam with characteristic odor

## **SECTION X: Stability and Reactivity**

<b>Stability</b>	Stable under normal conditions
<b>Hazardous Polymerization</b>	Not determined
<b>Hazardous Decomposition Products</b>	Emits toxic fumes upon combustion
<b>Conditions/Materials to Avoid</b>	Heat, strong oxidants, strong acids

## **SECTION XI: Toxicological Information**

N/A

## **SECTION XII: Ecological Information**

Mobility: Readily absorbed into soil  
Persistence and Degradability: Biodegradable  
Bioaccumulation Potential: None  
Other Adverse Effects: Negligible ecotoxicity

## **SECTION XIII: Disposal Considerations**

Do not discharge into drains or rivers. Dispose of in accordance with all applicable local, state, and federal regulations.

## **SECTION XIV: Transport Information**

UN #: 1950  
Labeling: 2.1  
Class: 2

## **SECTION XV: Regulatory Information**

Risk Phrases:  
R12: Extremely flammable  
R25: Toxic if swallowed  
R32: Contact with acids liberates very toxic gas  
R36/38: Irritating to eyes and skin

## **SECTION XVI: Other Information**

None

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The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Denticator 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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## S A F E T Y   D A T A   S H E E T

### **SECTION I: Identification**

**Product Identifier:**

**Product Name:**        **zooby<sup>®</sup> 1.23% APF Foam**  
**Part/Item Number:**    **611001, 612001, 613001, 614001, 615001, 616001**

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

**Recommended Use:**    Topical anticaries preparation  
**Restrictions on Use:**    Do not swallow

**Details of the Supplier:**

**Manufactured for:**    Denticator  
                                  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
Acute Toxicity Category 3	Flammable Aerosol Category 2
Eye Irritation Category 2	
Skin Irritation Category 2	

**Label Elements:**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement(s):**

Flammable aerosol  
 Harmful if swallowed  
 Causes serious eye irritation  
 May cause respiratory irritation

**Precautionary Statement(s):**

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Keep out of reach of children.  
Wash hands thoroughly after handling.

**Other Hazards:** None

**Unknown Acute Toxicity:** No ingredient with unknown toxicity.

### **SECTION III: Composition/Information on Ingredients**

Component	CAS #	WT%
Sodium Fluoride	7681-49-4/231-667-8	1-3%
Isobutane	75-28-5/200-857-2	4-12%

The exact concentration (%) is being withheld as a trade secret.

### **SECTION IV: First-Aid Measures**

#### **Description of First Aid Measures:**

**Eye contact** – Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin contact** – Wash skin with plenty of soap and water. Get medical attention if irritation develops.

**Ingestion** – Do not induce vomiting. If conscious, rinse out mouth with water and give copious amounts of milk, or water if milk is not available. Never give anything by mouth to an unconscious person. If symptoms persist, get immediate medical attention.

**Inhalation** – Move victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Get medical attention if irritation persists.

**Most Important Symptoms and Effects, Acute and Delayed:** May cause eye and skin irritation. May be harmful if swallowed.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** Treat symptomatically.

### **SECTION V: Firefighting Measures**

**Extinguishing media:** Use media appropriate for surrounding fire.

**Special Hazards Arising from the Substance or Mixture:** Contents under pressure. Containers may rupture or explode under fire conditions.

#### **Advice for Fire-Fighters:**

**Special Protective Equipment and Precautions for Firefighters** - Firefighters should wear full emergency equipment and positive pressure self-contained breathing apparatus.

**Unusual Fire/Explosion Hazards** – None under normal conditions of use.

**Known or Anticipated Hazardous Products of Combustion** – Carbon monoxide, carbon dioxide, and toxic fumes.

### **SECTION VI: Accidental Release Measures**

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Avoid contact with eyes, skin, and clothing. Use appropriate protective equipment as described in Section 8.

**Environmental Precautions:** Prevent spill from entering waterways.

**Methods and Materials for Containment and Cleaning Up:** 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. Report releases as required by local, state, and federal authorities.

### **SECTION VII: Handling and Storage**

**Precautions for Safe Handling:** Avoid contact with the eyes, skin and clothing. Wear protective clothing

and equipment as described in Section 8. Avoid spraying toward open flame. Wash thoroughly with soap and water after handling. Keep containers tightly closed when not in use. Do not puncture, incinerate or expose the containers to heat. Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all safety precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store at room temperature between 59°F (15°C) to 86°F (30°C). Do not expose to temperatures exceeding 40°C (104°F). Keep out of direct sunlight. Keep away from heat and ignition sources. Keep out of reach of children. Keep from freezing

## **SECTION VIII: Exposure Controls/Personal Protection**

**Control Parameters:** The parameters are not provided for the product itself. They are provided for the ingredients listed below.

<b>Occupational Exposure Limits:</b>		
<b>Component</b>	<b>TWA OSHA</b>	<b>TWA ACGIH</b>
Sodium Fluoride (as fluoride)	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>
Isobutane (listed as Alkane C1-4 gas)	None Established	1000 ppm

### **Exposure Controls:**

**Appropriate Engineering Controls** - No special ventilation normally required. For bulk handling, use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.

**Individual Protection Measures (PPE) - Eye Protection:** Safety glasses recommended.

**Skin Protection:** Wear impervious gloves. **Respiratory Protection:** None should be needed for normal use. If the exposure limits are exceeded an approved respirator with particulate cartridges or 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. **Other Protective Clothing or**

**Equipment:** None needed for normal use. Impervious clothing as needed to avoid contamination of personal clothing for bulk handling.

## **SECTION IX: Physical and Chemical Properties**

<b>Information on Physical and Chemical Properties:</b>	
<b>Appearance:</b>	White aerosol foam
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	5.5-6.5
<b>Melting point/freezing point:</b>	Not applicable/Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate (Butyl Acetate =1):</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/lower flammability or exposure limits:</b>	LEL: Not available UEL: Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available
<b>Relative density:</b>	Not available
<b>Solubilit(ies):</b>	Slightly soluble
<b>Partition coefficient: n-octano/water</b>	Not available



<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

## **SECTION X: Stability and Reactivity**

**Reactivity:** None known

**Chemical Stability:** Stable

**Possibility of hazardous reactions:** None under normal conditions of use.

**Conditions to avoid:** Keep away from ignition sources, heat.

**Incompatible materials:** Avoid oxidizing agents and strong acids.

**Hazardous decomposition products:** May produce carbon monoxide, carbon dioxide and toxic fumes.

## **SECTION XI: Toxicological Information**

Toxicological data are not available for the product itself. The data provided are for the ingredients listed below.

### **Potential Health Effects:**

**Ingestion** - May cause salivation, nausea, vomiting, abdominal pain, headaches, or dizziness.

**Eye Contact** – Direct contact causes eye irritation

**Skin Contact** – Prolonged skin contact may cause irritation.

**Inhalation** - No adverse effects expected, under normal conditions of use.

**Chronic Health Effects:** Not expected under normal conditions of use. Repeated overexposure to Sodium Fluoride may cause fluorosis.

### **Acute Toxicity Data:**

**Sodium Fluoride** – Oral rat LD50: 52mg/kg

**Isobutane** - 4hrs Inhalation rat LC50: 658 mg/L

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

**Carcinogenicity:** Not known to be as carcinogen or potential carcinogen by NTP (National Toxicological Program), IARC (International Agency for the Research of Cancer) or OSHA (Occupational Safety and Health Administration) or ACGIH (American Conference of Governmental Industrial Hygienists).

**Mutagenicity:** No data available

## **SECTION XII: Ecological Information**

Ecological data not available for the product itself. The data provided are for the ingredients listed below

### **Toxicity:**

**Sodium Fluoride** – 96 hrs. LC50 rainbow trout: 200 mg/L

**Persistence and Degradability:** No information available

**Bio-accumulative potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No information available

## **SECTION XIII: Disposal Considerations**

Dispose of in accordance with all Federal, State and Local regulations.

## **SECTION XIV: Transport Information**

### **DOT:**

**Proper Shipping Name** – Aerosols

**Hazard Class** – 2.1

**UN Number** – UN 1950

**Packing Group** – None

**Packaging** - See 49 CFR 173.306 for authorized specification non-bulk packagings.

**Limited Quantity and Consumer Commodity Exception** - See 49 CFR 173.306 for limited quantity and consumer commodity exceptions (valid until 12/31/2020). Inner packagings which do not exceed 1 L and outer packagings not exceeding 30 kg are authorized.

**Hazardous Substances (RQ)** – None listed

### **IATA/ICAO:**

**Proper Shipping Name** – Aerosols, flammable

**Hazard Class** – 2.1

**UN Number** – UN 1950

**Packing Group** – None

**Limited Quantity Exception** – See packing instruction Y203. Up to 1 L per can and 30 kg gross weight maximum per package. Combination packages are required.

**Consumer Commodity Exception** - See Packing Instruction Y963. If inner packages are not more than 500 mL and material is packaged for consumer use, it may be reclassified as ID8000, Consumer Commodity, Class 9. Gross weight is 30 kg.

**Passenger Aircraft Limitation** - See Packing Instruction 203. Up to 1 L maximum quantity per inner package (depending on inner package used) and 75 kg maximum net quantity per package. Combination packages are required. UN boxes must meet PG II performance standard.

**Cargo Aircraft Limitation** - See Packing Instruction 203. Up to 1 L maximum quantity per inner package (depending on inner package used) and 150 kg maximum net quantity per package. Combination packages are required. UN boxes must meet PG II performance standard.

### **IMDG/IMO:**

**Proper Shipping Name** – Aerosols

**Hazard Class** – 2.1

**UN Number** – UN 1950

**Packing Group** – None

## **SECTION XV: Regulatory Information**

### **US Federal Regulations:**

#### **SARA TITLE III:**

**Hazard Category for Section 311/312** – Acute Health, Fire Hazard

**Section 313 Toxic Chemicals** – This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None at or above reportable quantity.

**Section 302 extremely hazardous Substances (TPQ)** - None at or above reportable quantity

**EPA Toxic Substances Control Act (TSCA) Status** - This product is regulated by the Food and Drug Administration; and not subject to chemical notification requirements.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## **SECTION XVI: Other Information**

**Risk phrases used in Section 2:** Not applicable

**Supersedes:** 2 April 2013

**Date Revised:** 12 May 2015

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