

**SOM**

**ETHICON  
MATERIAL SAFETY DATA SHEET**

**ETHICON ID #** ETHICON ID #1518

**Date Issued:** 12/27/89

**Issued by:** Workplace Safety and Environmental Affairs Department  
201-218-2702

**SECTION I - IDENTIFICATION OF MATERIALS**

**Chemical Name/Composition:** Bone Wax  
**Trade Name & Synonyms:** ETHICON Bone Wax  
**Chemical Family:** Insect Wax / Mineral Wax Blend

**SECTION II - SIGNIFICANT COMPONENTS AND CONTAMINANTS**

<u>Components</u>	<u>CAS Number (ETHICON ID#)</u>	<u>%</u>	<u>Exposure Limits (Reference)</u>
Beeswax	8012-89-3 (ETHICON ID #1432)	72.63	None Established by OSHA or ACGIH
Paraffin Wax	8002-74-2 (ETHICON ID #3898)	14.87	2 mg/m <sup>3</sup> - ACGIH - TLV (8 hr.) (fume)
Isopropyl Palmitate	142-91-6 (ETHICON ID #2058)	12.5	None Established by OSHA or ACGIH

Note: None of the above components are listed on the NTP, IARC, or ACGH carcinogen list

- ACGIH - American Conference of Governmental Industrial Hygienists
- IARC - International Agency for Research on Cancer
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- STEL - Short Term Exposure Limit

**SECTION III - PHYSICAL DATA**

**Appearance and Odor:**

Homogenous cream to light yellow waxy solid with a very slight waxy odor

**Boiling Point:** NAP      **Melting Point:** 61-64°

**Specific Gravity:** 0.9 for beeswax / paraffin wax blend      **Odor Threshold:** NAV\*

**Vapor Press:** NAP      **Evap. Rate:** (mm of Mercury) NAP

**pH:** NAP      **Vapor Density (Air=1):** NAP      **Solub. in Water:** Insoluble

**BONE WAX****SECTION IV - FIRE AND EXPLOSION HAZARD DATA****Flashpoint (Specify Method): 400°F (C.O.C.)****Upper Explosive Limit (UEL): NAP****Lower Explosive Limit (LEL): NAP****Auto Ignition Temperature: NAP****Fire Extinguishing Media: (Data from beeswax / mineral wax blend)  
Use dry chemical****Special Fire Fighting Procedures/Unusual Fire and Explosion Hazards: (Data from beeswax/mineral blend)**

No special firefighting procedures.

No unusual fire and explosion hazards.

Thermal decomposition of bone wax may give off hydrocarbon compounds, carbon monoxide and carbon dioxide.

Note:           NAV - Not Available  
                  NAP - Not Applicable

**SECTION V - HEALTH HAZARD DATA****Toxicity:**

Since Bone wax is a combination of waxes and isopropyl palmitate, potential acute and chronic health hazards will be similar to the individual components.

**Health Hazards****Variability Among Individuals**

Individuals may show varying sensitivity.

**Effects of Overexposure (Signs and symptoms of exposure)**

None expected during normal conditions of use.

**Health Hazards (from review of paraffin, beeswax, isopropyl palmitate MSDSs)****Eyes**

Product contacting the eyes may cause eye irritation, primarily from mechanical action.

**Skin**

Prolonged or repeated skin contact may cause irritation or dermatitis in certain sensitive individuals.

**BONE WAX**

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**SECTION V - HEALTH HAZARD DATA**  
(continued)**Inhalation**

Inhalation is not expected during normal use of this product. However, if the product is in a particulate form, the hazards are expected to be similar to a nuisance dust (i.e., nose, throat and pulmonary irritation).

**Pre-existing Medical Conditions Which May Be Aggravated By Exposure**

Skin contact may aggravate existing dermatitis.

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**SECTION VI - EMERGENCY AND FIRST AID PROCEDURES****Eye Contact**

If product gets into eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

**Skin Contact**

In case of skin contact, wash skin thoroughly with soap and water.

**Inhalation**

If particulate is inhaled, remove from exposure. If breathing is irregular, call a physician immediately.

**Ingestion**

If ingested, call a physician immediately.

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**SECTION VII - REACTIVITY****General Reactivity**

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants.

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**SECTION VIII - ENVIRONMENTAL INFORMATION****Steps To Be Taken In Case Material Is Released or Spilled**

If molten, allow to solidify. Sweep up spilled material and place in disposal container. No specific handling required. Observe applicable local, state or federal regulations for waste material disposal.

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## BONE WAX

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### SECTION IX - PROTECTION AND PRECAUTIONS

#### **Ventilation**

If in a particulate form, use adequate ventilation to keep dust levels below nuisance dust exposure levels (i.e., 10 mg/m<sup>3</sup>).

#### **Respiratory Protection**

If in a particulate form, use respiratory protection as required.

#### **Protective Gloves**

Sensitive individuals may require gloves to avoid prolonged or repeated skin contact.

#### **Eye Protection**

Use safety glasses, goggles or face shield when particulates are generated.

#### **Other Protective Equipment**

None needed.

#### **Work Practices/Engineering Controls**

None needed.

#### **Personal Hygiene**

Routine personal hygiene.

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