



# Bristol-Myers Squibb Company

## MATERIAL SAFETY DATA SHEET

Alpha Keri<sup>®</sup>

revision date: Not applicable.

page: 1 of 8

date of issue: May 31, 1996

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### BRISTOL-MYERS PRODUCTS

A DIVISION OF BRISTOL-MYERS SQUIBB COMPANY  
1360 LIBERTY AVENUE  
HILLSIDE, NJ 07207-8050  
1-800-468-7746

4 oz  
Alpha Keri Oil

034-0352

026-1140

Product Identification Alpha Keri<sup>®</sup> (4.0, 8.0, 12.0, and 16.0 fl. oz.)

Synonym: None available.

How Supplied: Alpha Keri<sup>®</sup> is supplied in 4, 8, 12, and 16 fl. oz. plastic (rigid polyvinyl chloride) bottles.

Product Use: Bath additive for relief of dry, itchy skin.

Molecular Formula: Not applicable.

CAS #: Multiple CAS numbers- see below.

### EMERGENCY CONTACTS

Health: 1-800-468-7746 (Monday through Friday, daytime) at other times contact Chemtrec or the local poison control center.

Transportation: CHEMTREC (800)424-9300.

**EMERGENCY OVERVIEW:** Thin, oily, green liquid. The constituents of Alpha Keri<sup>®</sup> are all "generally recognized as safe" under the conditions of the product's intended use, as determined by qualified experts. This product is for external use only.

### 2. COMPOSITION/ INFORMATION ON INGREDIENTS

| COMPONENTS        | HAZARDOUS<br>(Y/N) | CONCENTRATION<br>(wt %) | CAS #      | EXPOSURE<br>GUIDELINE                                        |
|-------------------|--------------------|-------------------------|------------|--------------------------------------------------------------|
| lanolin oil       | Y                  | >1                      | 70321-63-0 | None.                                                        |
| white mineral oil | Y                  | >1                      | 8042-47-5  | 5 mg/m <sup>3</sup> TWA and<br>10 mg/m <sup>3</sup> TLV-STEL |
| fatty acid ester  | N                  | >1                      | 68139-91-3 | None.                                                        |

Present at < 1% for color, fragrance, and UV absorption: D&C Green No. 8, fragrance GD-5604-16, and benzophenone.

I- 268982 C-00351

I- 074807 C-00353

I- 486492 C-00007236008

- 06m I- 700673 C-00351

DMF I- 074806 C-00352

|                                                                                                                       |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  <b>Bristol-Myers Squibb Company</b> |                             |
| <b>MATERIAL SAFETY DATA SHEET</b>                                                                                     |                             |
| Alpha Kert                                                                                                            | page: 2 of 8                |
| revision date: Not applicable.                                                                                        | date of issue: May 31, 1998 |

1 OSHA PEL = Occupational Safety and Health Administration - Permissible Exposure Limit for an 8-hour workday, 40-hour work week.

2 ACGIH TLV TWA = American Conference of Governmental Industrial Hygienists - Threshold Limit Value Time-Weighted Average for an 8-hour workday, 40-hour work week. TLV-STEL - ACGIH Threshold Limit Value Short Term Exposure Limit.

### 3. HEALTH HAZARDS IDENTIFICATION

#### **EFFECTS OF OVEREXPOSURE**

##### **Routes of Entry:**

1. **Inhalation:** Exposure to this material by inhalation is not expected to occur.
2. **Skin contact:** During manufacture, unwanted exposure may occur if gloves and protective clothing are not worn.
3. **Ingestion:** Ingestion of large quantities of this material in an occupational setting would not be expected to occur. Ingestion of trace amounts of the material might occur if material contacts hands and hands are not washed prior to eating, drinking, or smoking. The extent of systemic absorption of the material after ingestion is not known.

##### **Acute**

**Ingestion:** Inadvertent ingestion of trace amounts of this material would not be expected to result in harmful effects. Ingestion is relatively non-toxic unless aspiration occurs. Aspiration may lead to chemical pneumonitis, which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of aspiration include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. This product has laxative properties, and ingestion of high doses may result in abdominal cramps and diarrhea.

**Inhalation:** Inhalation of small doses of aerosolized material would not be expected to result in symptoms. Inhalation of large doses of aerosolized material may result in chemical pneumonitis (see above in Ingestion).

Hc #02  
p.3

|                                                                                                                       |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  <b>Bristol-Myers Squibb Company</b> |                             |
| <b>MATERIAL SAFETY DATA SHEET</b>                                                                                     |                             |
| Alpha Keri <sup>®</sup>                                                                                               | page: 3 of 5                |
| revision date: Not applicable.                                                                                        | date of issue: May 31, 1996 |

**Skin Contact**

- a. **Toxic:** Toxicology testing show that this product is not an irritant to the skin.
- b. **Irritation:** The material contains white mineral oil and lanolin oil, which are possible skin irritants, during manufacturing of the product. Alpha Keri<sup>®</sup> does not produce irritation in toxicology studies.
- c. **Sensitization:** In toxicology tests, Alpha Keri<sup>®</sup> did not produce sensitization. However, lanolin oil, a constituent of the product, can cause allergic dermatitis in certain individuals, and may pose a sensitization concern during manufacturing.

**Eye Contact:** This material contains white mineral oil and lanolin oil, which are slight eye irritants and may pose a concern during manufacturing. Signs associated with eye irritation may include redness, tearing, swelling, pain. The product did not cause eye irritation in toxicology tests.

**Chronic:** Chronic health effects have not been evaluated. Alpha Keri<sup>®</sup> does not cause chronic health effects under normal usage conditions. However, exposure to a single large dose or repeated small doses of aerosolized white mineral oil, a constituent, by inhalation, aspiration or ingestion leading to aspiration can lead to low-grade, chronic, localized tissue reactions. Shortness of breath and cough are the most common symptoms.

**Exposure Guideline Summary:** The Occupational Safety and Health Administration (OSHA) and the American Conference of Governmental Industrial Hygienists (ACGIH) have established a Permissible Exposure Limit (PEL) and a Threshold Limit Value (TLV) for one constituent of this product. The OSHA PEL and the ACGIH TLV TWA for white mineral oil is 5 mg/m<sup>3</sup>, as oil mist, with a Short-term Exposure Limit of 10 mg/m<sup>3</sup>. Bristol-Myers Squibb has not developed an exposure guideline for Alpha Keri<sup>®</sup>.

**Carcinogen Lists**      **IARC:** No.      **NTP:** No.      **OSHA:** No.

**Target Organs:** No target organs have been identified.

**Medical Conditions Aggravated by Exposure:** Pre-existing skin rash may be aggravated by exposure.

**Medical Surveillance Recommendation:** None.

For more information refer to Section 11: Toxicological Information.

|                                                                                                                                         |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br><b>Alpha Kew</b><br>revision date: Not applicable. | <b>Bristol-Myers Squibb Company</b><br><b>MATERIAL SAFETY DATA SHEET</b><br>page: 4 of 5<br>date of issue: May 31, 1998 |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

#### 4. FIRST AID MEASURES

**Ingestion:** Seek medical attention immediately. Do NOT induce vomiting due to aspiration hazard. If vomiting occurs, lower head below knees to avoid aspiration.

**Inhalation:** This product is not expected to produce an inhalation exposure at ambient conditions. Remove exposed person to fresh air. If person is not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.

**Skin Contact:** If contact with constituents of the product should occur during manufacture, remove contaminated clothing. Flush skin with plenty of water for 15 minutes.

**Eye Contact:** Hold eyelids apart and flush with plenty of water for 15 minutes. Get medical attention if signs of irritation develop.

**Note to physicians:** Do not induce vomiting due to the presence of white mineral oil (petroleum distillate product) in the product.

---

#### 5. FIRE FIGHTING MEASURES

**Flash point:** Not determined.

**Autoignition Temperature:** Not determined.

**Flammability limits**

**LEL:** Not applicable.

**UEL:** Not applicable.

**Combustibility of Dusts:** Not applicable.

**Extinguishing Media:** In case of fire use carbon dioxide, foam, or dry chemical.

**Firefighting Instructions:** Firefighters should wear self-contained breathing apparatus (SCBA), flame and chemical resistant clothing, boots and gloves. Evacuate personnel to upwind direction, remove unneeded material and cool container(s) with water from maximum distance.

**Hazardous Combustion Products:** CO, CO<sub>2</sub>, and NO<sub>x</sub>.

**Unusual Hazards:** Dense smoke may be generated when material burns.

|                                                                                                                                                                                                               |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <br><b>Bristol-Myers Squibb Company</b><br><b>MATERIAL SAFETY DATA SHEET</b><br>Alpha Kart<br>revision data: Not applicable. | page: 5 of 8<br>date of issue: May 31, 1996 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|

## 6. ACCIDENTAL RELEASE MEASURES

**Spill/Clean-up:** Contain spill immediately. Do not allow spill to enter sewers or waterways. Remove all sources of ignition. Guard against slipping on spilled material. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up with vacuum pumps, shovels, buckets or other means and placed in suitable containers.

## 7. HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes and other mucous membranes.

**Container Requirements:** Plastic (rigid polyvinyl chloride) containers as specified in Section 1.

**Storage Conditions:** Store product at 15-30 degrees C.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation Requirements:** No ventilation requirements exist for the use of this product. During manufacture, enclosure of processes or local exhaust ventilation is required.

**Respiratory Protection:** No respiratory protection is necessary during the use of this product. When product is manufactured, if engineering controls are not sufficient to control dust/mist exposure, wear approved\* respiratory protection for dusts/mists that are appropriate for exposure. Self-contained breathing apparatus should be available for emergency use.

\*NIOSH approves respiratory protection in the United States.

**Eye Protection:** Eye protection is not necessary during use of this product. Wear safety goggles (ANSI Z87.1) during manufacturing.

**Protection Gloves:** Protective gloves are not necessary during use of this product. If the potential exists for dermal contact with the product or its constituents during manufacturing, impervious gloves (i.e., latex, latex/nitrile, or nitrile) should be worn.

**Special Clothing:** Special clothing is not necessary during use of this product. Wear protective coveralls during manufacturing whenever the potential exists for contact with the product or its constituents.

Hc #02  
p.6**Bristol-Myers Squibb Company**  
**MATERIAL SAFETY DATA SHEET**

Alpha Kent

revision date: Not applicable.

page: 6 of 8

date of issue: May 31, 1998

**Hypers:** During manufacture wash hands after handling product constituents or the product before eating, smoking, using lavatory, and at the end of the day.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance/Physical State/Color:** Thin, oily, green liquid.

**Boiling point:** Not available.

**Evaporation rate:** Not available.

**Flash point:** Not available.

**Melting point/Melting point:** Not available.

**Octanol/water partition coefficient:** Not available.

**Odor (threshold):** Perfumed.

**pH:** Not available.

**Solubility in water:** Not soluble.

**Specific gravity:** < 1.0 at 25 degrees C.

**Vapor density (Air = 1):** If adequate temperatures caused the product to volatilize, its vapor density would be greater than 1 (heavier than air) with the exception of the water present in the product which will rise as steam.

**Vapor Pressure:** Not available.

**Viscosity:** Greater than water.

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Incompatibilities:** May react with strong oxidizing agents and concentrated nitric or sulfuric acid.

**Conditions of Reactivity:** None known.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, and NO<sub>x</sub>.

**Hazardous Polymerization:** Will not occur.

**Explosion data relative to mechanical impact:** Not applicable.

**Explosion data relative to static discharge:** Not available.

|                                                                                                                       |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  <b>Bristol-Myers Squibb Company</b> |                             |
| <b>MATERIAL SAFETY DATA SHEET</b>                                                                                     |                             |
| Alpha Keri <sup>®</sup>                                                                                               | page: 7 of 8                |
| revision date: Not applicable.                                                                                        | date of issue: May 31, 1998 |

**11. TOXICOLOGICAL INFORMATION For Alpha Keri<sup>®</sup>.**

**RTECS # (U.S.):** None assigned.

**ACUTE:** Under normal conditions of use and exposure, Alpha Keri<sup>®</sup> does not produce irritation or sensitization. Animal studies using rabbits showed an acute dermal toxicity of 10 ml/kg with no mortality. A 28-day dermal test of 2.0 ml/kg/day showed no effects in rabbits. Animal studies using rabbits indicate that this product is not an irritant to the skin or eyes.

**LD 50:**

Acute oral LD50 (mouse) > 20 ml/kg.

Probable lethal dose (human) > 1 quart (practically non-toxic).

**LC 50:** Not applicable.

**CHRONIC**

**Carcinogenicity:** Alpha Keri<sup>®</sup> has not been evaluated for carcinogenic potential. The International Agency for Research on Cancer (IARC) has concluded that highly refined mineral oils such as white mineral oil, a constituent of this product, are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human and inadequate animal evidence. IARC has also concluded that there is no evidence for the carcinogenicity to experimental animals of white oils when administered by route other than by intraperitoneal injection.

**Mutagenicity:** Material has not been evaluated for mutagenicity.

**Teratogenicity:** Alpha Keri<sup>®</sup> has not been evaluated for potential to produce adverse effects on the embryo or fetus.

**Reproductive Effects:** Material has not been evaluated for reproductive effects.

**Toxicological synergistic products:** None known.

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information:** No information.

**Chemical Fate Information:** No information.

Hc #02 p.8

|                                                                                                                                                               |                                                     |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| <br><b>Bristol-Myers Squibb Company</b><br><b>MATERIAL SAFETY DATA SHEET</b> | <b>Alpha Kart</b><br>revision date: Not applicable. | page: 8 of 8<br>date of issue: May 31, 1996 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|

### 13. DISPOSAL CONSIDERATIONS

**Disposal:** Dispose of in accordance with National, State, Local, and applicable country regulations.

### 14. TRANSPORT INFORMATION

#### DOMESTIC

**Hazard Class (UN #):** Not a D.O.T. regulated material.

**Proper shipping name:** Not applicable.

**Label requirements:** Not applicable.

**Placard requirements:** Not applicable.

**Limited Quantity Exemption:** Not applicable.

#### INTERNATIONAL

**Hazard Class (UN # or PIN #):** Not a regulated material.

**Proper shipping name:** Not applicable.

**Label requirements:** Not applicable.

**Placard requirements:** Not applicable.

**Limited Quantity Exemption:** Not applicable.

### 15. REGULATORY/STATUTORY INFORMATION – not meant to be all inclusive.

**U.S. Endcat:** None noted.

**International:** None noted.

**EC Labeling:** Not required.

### 16. OTHER INFORMATION

This material safety data sheet (MSDS) is intended for use by personnel who handle this material as part of their job responsibilities or individuals who use the product. It does not address proper techniques for use and application of this material. Information concerning the use and application of this product should be obtained from the container and/or the case containing multiple containers.

The information contained in this MSDS is believed to be accurate and represents the best information available at the time of preparation. However, we make no warranty, express or implied, with respect to such information, and we assume no liability from its use.