

BFGoodrich Kalama EMERGENCY PHONE 1-360-673-2550 CHEMTREC 1-800-424-9300

**I** PRODUCT INFORMATION

CHEMICAL NAME: **BENZYL BENZOATE**  
SYNONYM: Benzyl alcohol, benzoic acid ester  
CHEMICAL FAMILY: Aromatic Esters  
MOLECULAR FORMULA:  $C_6H_5COOCH_2C_6H_5$  ( $C_{14}H_{12}O_2$ )  
MOLECULAR WEIGHT: 212.2  
CAS REG NO: 120-51-4

**II** SUMMARY OF HAZARDS

**CAUTION!** MAY CAUSE EYE IRRITATION  
MAY CAUSE SKIN IRRITATION

**III** PHYSICAL PROPERTIES

APPEARANCE and ODOR: Colorless liquid with an aromatic odor.  
BOILING POINT: 614°F (323°C)  
MELTING POINT: 70°F (21°C)  
VAPOR PRESSURE: < 1 mm Hg @ 20°C (68°F)  
SPECIFIC GRAVITY: 1.114 @ 77°F (H<sub>2</sub>O = 1)  
WEIGHT PER GALLON: 9.3#  
VAPOR DENSITY: 7.3 (Air = 1)  
SOLUBILITY IN WATER: Slight  
% VOLATILE: 100  
EVAPORATION RATE: <<1 (Butyl acetate = 1)

**IV** FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (TCC): 298°F (148°C) FLAMMABLE LIMITS: Not determined  
AUTOIGNITION TEMP: 896°F (436°C) DECOMPOSITION TEMP: Not determined

FIRE and EXPLOSION HAZARDS: Decomposition under fire conditions will generate carbon monoxide and may generate other toxic vapors.

FIRE FIGHTING INFORMATION: Use CO<sub>2</sub>, foam, or dry chemical to extinguish fire. Water can be used to cool a fire, but for extinguishment, foam or dry chemical are preferred. Avoid spreading liquid and fire by water flooding. Wear self-contained, positive pressure breathing apparatus and full firefighting protective clothing. Use water to keep containers cool.

**V** HAZARD RATINGS FOR BENZYL BENZOATE

<u>HMIS</u>	<u>HEALTH</u>	1
<u>RATINGS</u>	<u>FLAMMABILITY</u>	1
<u>(NPCA &amp; NAPIM)</u>	<u>REACTIVITY</u>	0

=====  
VI HEALTH HAZARD INFORMATION

LD<sub>50</sub> (ORAL RAT): 1700 mg / kg

-----  
THRESHOLD LIMIT VALUE (TLV): TLV has not been established by the ACGIH.  
-----

CARCINOGEN ( IARC / NTP / 29CFR ): No

-----  
**NOTE:** Health studies have shown that exposures to chemicals pose potential health risks which may vary from person to person. Therefore any exposure to liquids, vapors, mists , or fumes should be minimized.  
-----

**ACUTE HEALTH HAZARDS:**

**Inhalation:** Vapors at high temperatures may be irritating to the respiratory tract.

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May cause skin irritation.

**Ingestion:** May cause progressive incoordination, central nervous system excitation, and convulsions, possibly leading to death.

-----  
**CHRONIC HEALTH HAZARDS:** No chronic health hazard information is available.  
-----

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None  
-----

**EMERGENCY FIRST AID:**

**Inhalation:** If overcome by exposure, remove to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention.

**Eye Contact:** In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** In case of skin contact, flush with plenty of mild soap and water. Promptly remove contaminated clothing and wash thoroughly before reuse. Call a physician if irritation develops.

**Ingestion:** If swallowed, call a physician immediately. Induce vomiting only on advice of medical personnel. Never give anything by mouth to an unconscious person.

=====  
VII PROTECTIVE EQUIPMENT AND EXPOSURE CONTROL METHODS

Use with adequate local exhaust ventilation. In confined or enclosed spaces, use NIOSH approved respiratory protection. Use chemical resistant apron, gloves, and other impervious clothing to avoid skin contact. Use splash goggles and face shield when eye contact may occur. Provide safety shower equipped with an eye wash fountain in the immediate vicinity of any potential exposure.

Use good personal hygiene practices. Wash hands before eating, drinking, or smoking, or using toilet facilities. Promptly remove contaminated clothing and wash thoroughly before reuse.

=====  
(please see page 3 for additional data)

BFGoodrich Kalama  
**BENZYL BENZOATE**

VIII REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion will produce carbon monoxide and other potentially toxic and/or poisonous vapors.

IX SPILL OR LEAK PROCEDURES

Remove sources of ignition, stop release, and provide adequate ventilation. Prevent flow to sewers and public waters. Recover free product, if possible. Cover spill with inert, non-combustible absorbent material and remove to disposal container. Report spill as per regulatory requirements.

Leaking drum should be emptied or placed into an oversized (recovery) drum.

X WASTE DISPOSAL

Disposal must be made in accordance with applicable governmental regulations. Do not contaminate any streams, lakes, or ponds.

XI ADDITIONAL PRECAUTIONS

Store as a NFPA Class IIIB liquid. Keep fire and sparks away from drums. Since empty containers retain product residue, do not cut, drill, grind, or weld on or near the container until it is thoroughly cleaned.

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Remove all ignition sources. Check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective equipment. Comply with regulations governing confined space entry.

XII OSHA / SARA TITLE III / TSCA INFORMATION

We have evaluated Benzyl Benzoate using the criteria in OSHA's Hazard Communication Rule (29CFR 1910.1200). Benzyl Benzoate is not considered hazardous under this OSHA standard.

Benzyl Benzoate is not listed as an Extremely Hazardous Substance under Section 302 of SARA Title III.

Benzyl Benzoate is not subject to the reporting requirements of Sections 311 or 312 of SARA Title III.

Benzyl Benzoate does not contain ingredients (at a level of 1% or more) on the List of Toxic Chemicals in Section 313 of SARA Title III.

Benzyl Benzoate is included in the current TSCA Inventory List.

*THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATION, INDUCEMENT, OR LICENSE OF ANY KIND, EXCEPT THAT IT IS BELIEVED ACCURATE TO THE BEST OF OUR KNOWLEDGE, OR OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE. BFGOODRICH KALAMA DOES NOT ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME. CUSTOMERS ARE ENCOURAGED TO CONDUCT THEIR OWN TESTS. BEFORE USING ANY CHEMICAL, READ ITS LABEL AND PRODUCT LITERATURE.*

