



MATERIAL SAFETY DATA SHEET

J. T. Baker Chemical Co., 222 Red School Lane, Phillipsburg, N.J. 08865

84-9790
84-9792
84-9794

SECTION I . IDENTIFICATION OF PRODUCT

CHEMICAL NAME Butanol	FORMULA C_4H_9OH
SYNONYM OR CROSS REFERENCE n-Butyl Alcohol, Propylcarbinol	CAS NO: 71-36-3

SECTION II . HAZARDOUS INGREDIENTS

MATERIAL	NATURE OF HAZARD
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SECTION III . PHYSICAL DATA

BOILING POINT @ 760 mm Hg ~117.5°C.	MELTING POINT ~-89.3°C.
VAPOR PRESSURE @ 20°C. 4 mm Hg	SPECIFIC GRAVITY 0.8108 @ 20/20°C.
VAPOR DENSITY (AIR=1) 2.5	PERCENT VOLATILE BY VOLUME (%) 100
WATER SOLUBILITY % by wt at 20°C. 7.7	EVAPORATION RATE (Butyl Acetate = 1) 0.459
APPEARANCE Clear, colorless liquid, characteristic, nonresidual odor	

SECTION IV . FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) 84°F. (closed cup)	FLAMMABLE LIMITS	Lower 1.4	Upper 11.2
FIRE EXTINGUISHING Use alcohol foam for large fires.			
MEDIA Use carbon dioxide or dry chemical for small fires.			
SPECIAL FIRE-FIGHTING PROCEDURES			

UNUSUAL FIRE AND EXPLOSION HAZARD

Flammable

SECTION V . HEALTH HAZARD

THRESHOLD LIMIT VALUE 100 ppm (skin) or 300 mg/M ³	orl-rat LD ₅₀ : 790 mg/kg
HEALTH HAZARDS Causes eye burns, nausea, vomiting, narcosis, irritation of nose and throat.	
FIRST AID PROCEDURES If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician.	

CHEMICAL NAME

SECTION VI . REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY (materials to avoid)			
Strong mineral acids			
HAZARDOUS DECOMPOSITION PRODUCTS			
Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII . SPILL AND DISPOSAL PROCEDURES

SPILLS Eliminate all sources of ignition. Absorb on sand, earth or vermiculite. Carefully sweep up and remove. Flush spill area with water. Alternatively use J. T. Baker's Flammable Solvent Cleanup Kit.

DISPOSAL

Atomize into a furnace, providing local environmental regulations permit.

SECTION VIII . PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)
All-purpose canister mask. Chemical Cartridge respirator.

VENTILATION	LOCAL X	SPECIAL
	MECHANICAL (general) X	OTHER
PROTECTIVE GLOVES Rubber gloves		EYE PROTECTION Full face shield
OTHER PROTECTIVE EQUIPMENT Approved working clothes		

SECTION IX . HANDLING AND STORAGE PRECAUTIONS

STORAGE & HANDLING

Keep away from heat, sparks, flame. Keep in tightly closed container. Do not store in copper or its alloys.

SECTION X . MISCELLANEOUS INFORMATION

Avoid breathing vapor. Avoid contact with eyes, skin, clothing. Use with adequate ventilation.

Date issued: 4/84 Revision: Approved by R. M. Mitchell
Manager, Quality Assurance

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the sheet is the latest one issued.