

# MATERIAL SAFETY DATA SHEET

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

## PRODUCT IDENTIFICATION

PRODUCT NAME: 2-OCTANOL  
COMMON SYNONYMS: HEXYL METHYL CARBINOL; CAPRYLIC ALCOHOL  
CHEMICAL FAMILY: ALCOHOLS  
FORMULA: CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CHOHCH<sub>3</sub>  
FORMULA WT.: 130.23  
CAS NO.: 123-96-6  
NIOSH/RTECS NO.: N/A  
PRODUCT USE: LABORATORY REAGENT  
PRODUCT CODES: 9332

CHEMTREC # (800) 424-9300 NATIONAL RESPONSE CENTER # (800) 424-8802  
J.T.BAKER INC. 222 RED SCHOOL LANE PHILLIPSBURG, NJ 08865 24-HOUR  
EMERGENCY TELEPHONE -- (201) 859-2151

EFFECTIVE: 01/04/94 ISSUED: 04/08/95  
REVISION #03

### PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* SYSTEM

HEALTH	-	1	SLIGHT
FLAMMABILITY	-	2	MODERATE
REACTIVITY	-	1	SLIGHT
CONTACT	-	1	SLIGHT

### LABORATORY PROTECTIVE EQUIPMENT

GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

### U.S. PRECAUTIONARY LABELING

#### CAUTION

COMBUSTIBLE.  
KEEP AWAY FROM HEAT, SPARKS, FLAME. KEEP IN TIGHTLY CLOSED CONTAINER.  
WASH  
THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE WATER SPRAY, ALCOHOL  
FOAM,  
DRY CHEMICAL, OR CARBON DIOXIDE. FLUSH SPILL AREA WITH WATER SPRAY.

### INTERNATIONAL LABELING

AVOID CONTACT WITH EYES. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH  
PLENTY OF WATER. KEEP CONTAINER TIGHTLY CLOSED.

SAF-T-DATA\* STORAGE COLOR CODE: RED (FLAMMABLE)

## COMPONENTS

COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL
ACGIH/TLV			
2-OCTANOL	123-96-6	90-100	N/E N/E

## PHYSICAL DATA

BOILING POINT: 178 C (352 F) VAPOR PRESSURE (MMHG): 0.15  
(AT 760 MM HG) (20 C)

## **MATERIAL SAFETY DATA SHEET**

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

MELTING POINT: -38 C (-36 F)  
(AT 760 MM HG) VAPOR DENSITY (AIR=1): 4.5

SPECIFIC GRAVITY: 0.82  
(H2O=1) EVAPORATION RATE: 0.05  
(BUTYL ACETATE = 1)

SOLUBILITY(H2O): NEGLIGIBLE (<0.1%) % VOLATILES BY VOLUME: 100  
(21 C)

PH: N/A

ODOR THRESHOLD (P.P.M.): N/A

PHYSICAL STATE: LIQUID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

APPEARANCE & ODOR: CLEAR, COLORLESS VISCOUS LIQUID. PUNGENT ODOR.

### **FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (CLOSED CUP): 76 C (170 F)

NFPA 704M RATING: 1-2-0

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A

LOWER - N/A

#### FIRE EXTINGUISHING MEDIA

USE WATER SPRAY, ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

#### SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED

BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE

MODE. MOVE EXPOSED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT

RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK.

CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

#### TOXIC GASES PRODUCED

NONE IDENTIFIED

#### EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT

NONE IDENTIFIED.

#### EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE

NONE IDENTIFIED.

### **HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE (TLV/TWA): NOT ESTABLISHED

## MATERIAL SAFETY DATA SHEET

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

SHORT-TERM EXPOSURE LIMIT (STEL): NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL): NOT ESTABLISHED

### TOXICITY OF COMPONENTS

UNREPORTED ROUTE; MAMMAL; LD50 2-OCTANOL 6934

MG/KG

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

### CARCINOGENICITY

NONE IDENTIFIED.

### REPRODUCTIVE EFFECTS

NONE IDENTIFIED.

### EFFECTS OF OVEREXPOSURE

INHALATION: NONE IDENTIFIED

SKIN CONTACT: IRRITATION

EYE CONTACT: IRRITATION

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: NONE IDENTIFIED

CHRONIC EFFECTS: NONE IDENTIFIED

### TARGET ORGANS

NONE IDENTIFIED

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE IDENTIFIED

### PRIMARY ROUTES OF ENTRY

SKIN CONTACT, EYE CONTACT

### EMERGENCY AND FIRST AID PROCEDURES

INGESTION: IF SWALLOWED AND THE PERSON IS CONSCIOUS, IMMEDIATELY  
GIVE

LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

INHALATION: CALL A PHYSICIAN. IF INHALED, REMOVE TO FRESH AIR. IF  
NOT

BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING  
IS

DIFFICULT, GIVE OXYGEN.

SKIN CONTACT: IN CASE OF CONTACT, FLUSH SKIN WITH WATER.

## **MATERIAL SAFETY DATA SHEET**

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

### SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: NO CHRONIC: NO FLAMMABILITY: YES PRESSURE: NO REACTIVITY: NO  
EXTREMELY HAZARDOUS SUBSTANCE: NO

CERCLA HAZARDOUS SUBSTANCE: NO  
SARA 313 TOXIC CHEMICALS: NO  
TSCA INVENTORY: YES

### **REACTIVITY DATA**

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, FLAME, SOURCES OF IGNITION

INCOMPATIBLES: STRONG OXIDIZING AGENTS

DECOMPOSITION PRODUCTS: NONE IDENTIFIED

### **SPILL & DISPOSAL PROCEDURES**

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE  
WEAR SUITABLE PROTECTIVE CLOTHING. SHUT OFF IGNITION SOURCES; NO FLARES,  
SMOKING, OR FLAMES IN AREA. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. USE  
WATER SPRAY TO REDUCE VAPORS. TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE  
ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL.  
FLUSH  
AREA WITH WATER.

### DISPOSAL PROCEDURE

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

### **INDUSTRIAL PROTECTIVE EQUIPMENT**

VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST  
VENTILATION TO KEEP VAPOR AND MIST LEVELS AS LOW AS POSSIBLE.

RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS  
EXIST. IF AIRBORNE CONCENTRATION IS HIGH, A  
CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR  
CARTRIDGE IS RECOMMENDED. IF CONCENTRATION EXCEEDS CAPACITY  
OF CARTRIDGE RESPIRATOR, A SELF-CONTAINED BREATHING

## **MATERIAL SAFETY DATA SHEET**

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES, PROPER GLOVES ARE RECOMMENDED.

### **STORAGE AND HANDLING PRECAUTIONS**

SAF-T-DATA\* STORAGE COLOR CODE: RED (FLAMMABLE)

#### STORAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-  
VENTILATED,  
FLAMMABLE LIQUID STORAGE AREA OR CABINET.

### **TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (N,N-DIMETHYL-P-  
TOLUIDINE)

HAZARD CLASS: COMBUSTIBLE LIQUID

UN/NA: UN1993

PACKAGING GROUP: III

LABELS: NO LABEL REQUIRED

REGULATORY REFERENCES: 49CFR 172.101

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)  
MARINE POLLUTANTS: NO

AIR (I.C.A.O.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)

U.S. CUSTOMS HARMONIZATION NUMBER: 29051600503

NOTE: WHEN HANDLING LIQUID PRODUCTS, SECONDARY PROTECTIVE CONTAINERS MUST BE USED FOR CARRYING. N/A = NOT APPLICABLE, OR NOT AVAILABLE N/E = NOT ESTABLISHED. THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET MEETS THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT AND REGULATIONS PROMULGATED THEREUNDER (29 CFR 1910.1200 ET. SEQ.) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PERSON TRAINED IN, OR SUPERVISED BY A PERSON TRAINED IN, CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS AND DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION. DEPENDING ON USAGE, PROTECTIVE CLOTHING INCLUDING EYE AND FACE GUARDS AND RESPIRATORS MUST BE USED TO AVOID CONTACT WITH MATERIAL OR BREATHING CHEMICAL VAPORS/FUMES. EXPOSURE TO THIS PRODUCT MAY HAVE SERIOUS ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES ARE SO VARIED, BAKER CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH OTHER CHEMICALS OR MATERIALS. BAKER WARRANTS THAT THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE LABEL. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE. THE USER SHOULD RECOGNIZE THAT THIS PRODUCT CAN

## **MATERIAL SAFETY DATA SHEET**

2-OCTANOL  
CAROLINA BIOLOGICAL

Revised: 09/05/00  
Replaces: None  
Printed: 07/08/06

---

CAUSE SEVERE INJURY AND EVE DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY REVISE THIS MATERIAL SAFETY DATA SHEET. NOTE: CHEMTREC, CANUTEC, AND NATIONAL RESPONSE CENTER EMERGENCY TELEPHONE NUMBERS ARE TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS. ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (1-800-JTBAKER ASSISTANCE. COPYRIGHT 1995 J.T.BAKER INC. \* TRADEMARKS OF J.T.BAKER INC. APPROVED BY QUALITY ASSURANCE DEPARTMENT.