

BACHARACH, INC.
MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet has been prepared to comply with the EC Directive, Canadian WHMIS and OSHA Hazard Communication Regulations.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

BACHARACH, INC.
(CHEMTREC)
625 ALPHA DR.
PITTSBURGH, PA 15238

EMERGENCY PHONE: (800) 424-9300
INFORMATION PHONE: (412) 963-2223
FAX: (412) 963-2091

PRODUCT NAME: RED RECORDER INK

PRODUCT NUMBER: 22-0077, 14-0009 **MSDS NUMBER:** 99-0001 **REVISION NUMBER:** 5

MSDS DATE OF PREPARATION/REVISION: 04-07-00

SECTION 2: COMPOSITION/ INFORMATION INGREDIENTS

Component	CAS#	Percentage	Exposure Limits
Ethylene Glycol	107-21-1	10-12	100 mg/m ³ TLV-C (aerosol)
Water, glycols, water soluble dyes	Mixture	Balance	None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Red liquid, low odor. May cause mild eye and skin irritation.

ACUTE HEALTH HAZARDS:

EYE CONTACT: May cause mild irritation.

SKIN CONTACT: May cause mild reversible irritation.

INHALATION: Not volatile. Inhalation of mists may cause minor temporary irritation to nose, throat and respiratory passages and nervous system effects.

INGESTION: Ingestion of ethylene glycol may cause central nervous system depression, liver and kidney damage.

CHRONIC HEALTH EFFECTS: Prolonged skin exposure may result in dermatitis. Ethylene glycol has been found to cause dose-related teratogenic effects in rats and mice. The significance of these findings to human health has not been determined.

CARCINOGEN STATUS: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

SEE SECTION 11 - TOXICOLOGICAL INFORMATION FOR ADDITIONAL DATA

SECTION 4: FIRST AID

EYE CONTACT: Flush thoroughly with copious amounts of running. Get medical attention if irritation develops.

SKIN CONTACT: Wash well with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation develops.

INHALATION: Due to the low volatility of this material, overexposure is very unlikely. If irritation develops, remove to fresh air and get medical attention.

INGESTION: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water. Get immediate medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None **TEST METHOD:** N/A
AUTOIGNITION TEMPERATURE: N/A
FLAMMABLE LIMITS: **LEL:** N/A **UEL:** N/A
EXTINGUISHING MEDIA: This material is non-combustible. Use any media suitable for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH approved positive pressure self contained breathing apparatus and full protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.
HAZARDOUS COMBUSTION PRODUCTS: Combustion produces ethyl alcohol, carbon dioxide and carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Contain spill, cover with inert absorbent and collect. Wash residual traces with soap and water.

SECTION 7: HANDLING AND STORAGE

WORK PRACTICES: Avoid contact with the eyes. Avoid contact with the skin or clothing.

SPECIAL PRECAUTIONS: None.

STORAGE: Store in a cool, dry area. Avoid freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good general room ventilation is usually adequate.
RESPIRATORY PROTECTION: None should be needed under normal conditions and ambient temperatures. If misted wear a NIOSH approved organic vapor respirator.
GLOVES: Rubber gloves to protect skin from stain.
EYE PROTECTION: Safety glasses recommended.
OTHER PROTECTIVE EQUIPMENT: None needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Recorder pen containing thin red liquid. There is no odor threshold data available for any of the components.

pH: 2-10

BOILING POINT: Similar to water

MELTING POINT: Less than 0°F

SOLUBILITY IN WATER: 100%

COEFFICIENT WATER/OIL: N/D

SPECIFIC GRAVITY: 1.0 - 1.1

VAPOR PRESSURE: Slightly less than water

VAPOR DENSITY: Similar to water

PERCENT VOLATILE: N/D

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Do not heat above 200°F.

INCOMPATIBILITY: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce ethyl alcohol, carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA: Ethylene Glycol: LD50 oral rat: 4,700 mg/kg.
LD50 skin rabbit: 9,530 mg/kg.

IRRITANCY DATA: Not a primary irritant.

SENSITIZATION: This material has not been tested as a whole. None of the components have been reported to cause sensitization in animals or humans.

REPRODUCTIVE TOXICITY: This material has not been tested as a whole. None of the components have been reported to cause reproductive toxicity in animals or humans.

TERATOGENICITY: This material has not been tested as a whole. Ethylene glycol has been reported to cause teratogenic effects in animals.

MUTAGENICITY: This product has not been tested as a whole. None of the components have been found to be mutagenic.

SYNERGISTIC EFFECTS: There are no chemicals known to cause any additive adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION

The ecological effects of this product have not been evaluated.

SECTION 13: DISPOSAL

Dispose in accordance with all local, state and federal regulations.

RCRA HAZARDOUS WASTE CODES: None

SECTION 14: TRANSPORTATION DATA

US DOT SHIPPING NAME: NOT REGULATED

DOT LABELS REQUIRED: N/A

EMERGENCY RESPONSE GUIDE NUMBER: N/A

IATA SHIPPING NAME: NOT REGULATED

IATA LABELS REQUIRED: N/A

SECTION 15: OTHER REGULATORY INFORMATION

SARA 311/312: Hazard Categories for SARA Section 311/312 Reporting: Not hazardous

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Section 313 (40 CFR 372): Ethylene glycol 10-12%

CERCLA SECTION 103 REPORTABLE QUANTITY: Product: 41,666 lbs. (Ethylene glycol-5,000 lbs)

CALIFORNIA PROPOSITION 65: This product contains the following substances known to the State of California to cause Cancer and/or Reproductive Harm: None known

US TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the EPA TSCA Inventory.

CANADIAN WHMIS CLASSIFICATION: Not a controlled product.

EUROPEAN COMMUNITY LABELING CLASSIFICATION: N/A

EUROPEAN COMMUNITY RISK AND SAFETY PHRASES: N/A

SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING: **HEALTH:** 1 **FIRE:** 0 **REACTIVITY:**
0

DATE OF LATEST MSDS REVISION: 08-25-1997

REVISION SUMMARY: Updated format.

The preceding information is believed to be correct and current as of the date of preparation of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Bacharach, Inc., it is the users obligation to assure safe use of this product.