



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

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RIBOPRINTER(R) SYSTEM DNA PREP ENZYME
DU007270 Revised 20-NOV-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Formula : Mixture

Product Use

Laboratory Reagent

Tradenames and Synonyms

DNA Prep Enzyme -- EcoRI
DNA Prep Enzyme -- PstI
DNA Prep Enzyme -- PvuII

Company Identification

MANUFACTURER/DISTRIBUTOR

Qualicon, Inc.
Bedford Building
3531 Silverside Road
Wilmington, DE 19810

PHONE NUMBERS

Product Information : 302-695-5300
Transport Emergency : CHEMTREC 800-424-9300
Medical Emergency : 800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
This product is a restriction enzyme suspended in glycerol and non-hazardous chemicals.		
Glycerol	56-81-5	50

HAZARDS IDENTIFICATION

Potential Health Effects

No adverse effects are expected from occupational exposure.

(HAZARDS IDENTIFICATION - Continued)

SIGNIFICANT EFFECTS AND ROUTES OF EXPOSURE FOR GLYCEROL:

Inhalation LC50: no information found
Skin absorption LD50: no information found
Oral LD50: 12,6000 mg/kg in rats

Very low toxicity by ingestion (oral LD50 > 5,000 mg/kg).

Glycerine is a moderate skin irritant, is a mild eye irritant, and is untested for animal sensitization. Toxic effects described in animals from short exposure by inhalation, ingestion, or skin contact include kidney effects at very high exposure levels. No animal test reports are available to define carcinogenic, mutagenic, embryotoxic, or reproductive hazards.

Human health effects of overexposure to Glycerine by inhalation, ingestion or skin or eye contact may initially include: skin irritation with discomfort or rash; eye irritation with discomfort, tearing, or blurring of vision; or nonspecific discomfort, such as nausea, headache, or weakness. Extremely high exposures may lead to these effects: red blood cell destruction; or abnormal kidney function with bloody urine or lower back pain. Data to evaluate the skin permeation hazard of Glycerine are insufficient.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

Inhalation is not an expected route of exposure during normal use of the product.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

(FIRST AID MEASURES - Continued)

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician immediately.

FIRE FIGHTING MEASURES

Flammable Properties

OSHA Flammability Class: IIIA

Material will not burn unless preheated.

Hazardous gases/vapors produced in fire are acrolein.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

Handling (Physical Aspects)

Keep away from heat, sparks and flames.

Storage

Do not mix with strong oxidizing agents or strong bases. Keep container tightly closed.

(HANDLING AND STORAGE - Continued)

Store frozen (-20C) to preserve for intended purpose. Not hazardous at other temperatures.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Eye/Face : Safety Glasses. Follow applicable area procedures on protective equipment.

Exposure Guidelines

Applicable Exposure Limits

Glycerol

PEL (OSHA)	: 15 mg/m ³ - Total Particulates - 8 Hr TWA
	5 mg/m ³ - Respirable Fraction - 8 Hr TWA
TLV (ACGIH)	: 10 mg/m ³ - Total Particulates - 8 Hr TWA

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

This material is a liquid, fairly soluble in water.

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with strong oxidizing agents and strong bases, polypropylene, chlorine, nitric acid, sulfuric acid, hydrofluoric acid, CO, CO₂ and acrolein.

Decomposition

Decomposes with heat.

Hazardous gases/vapors produced are acrolein.

Polymerization

Polymerization will not occur.

DISPOSAL CONSIDERATIONS

Waste Disposal

This material may be acceptable for treatment by a POTW (Publicly Owned Treatment Works). Follow all Federal and Local regulations. Consult POTW authorities for Local requirements.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA
Not Regulated.

OTHER INFORMATION

Additional Information

RiboPrinter(R) is a US-registered trademark for the microbial characterization system of Qualicon, Inc., a subsidiary of E. I. du Pont de Nemours and Company, Wilmington, Delaware.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : Product Safety Coordinator
DuPont Qualicon
Address : Experimental Station
Building 400
Rt. 141 & Henry Clay Road
Wilmington, DE 19880
Telephone : 302-695-5300

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS