



## Material Safety Data Sheet

### SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: M0100, M0150  
 NAME: 100bp DNA ladder

### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Reagent	CAS#	Concentration, %
1. Tris-HCl	#77-86-1	< 1%
2. EDTA	#60-00-4	< 1%

### SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS

**CAUTION:** AVOID CONTACT AND INHALATION.  
 REFRIGERATE.

### SECTION 4. FIRST-AID MEASURES

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
 CALL A PHYSICIAN.  
 IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT.  
 CALL A PHYSICIAN.  
 IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.  
 IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
 ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS.  
 CALL A PHYSICIAN.

### SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
 SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
 UNUSUAL FIRE AND EXPLOSIONS HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
 ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

### SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
WASH THOROUGHLY AFTER HANDLING.  
AVOID INHALATION.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
KEEP TIGHTLY CLOSED.  
STORE AT 2~8°C (35.6~46.4°F).

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR  
LIQUID.

## **SECTION 10. STABILITY AND REACTIVITY**

STABILITY  
STABLE.  
INCOMPATIBILITIES  
ACIDS  
BASES  
OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE  
HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS  
MAY CAUSE SKIN IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
MAY CAUSE EYE IRRITATION.  
MAY BE HARMFUL IF INHALED.  
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.  
MAY BE HARMFUL IF SWALLOWED.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL , PHYSICAL, AND TOXICOLOGICAL  
PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

## **SECTION 12. ECOLOGICAL INFORMATION**

DATA NOT YET AVAILABLE.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.  
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL  
INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

## **SECTION 14. TRANSPORT INFORMATION**

NOT DANGEROUS AND NOT INFECTIOUS.

**SECTION 15. REGULATORY INFORMATION**

EUROPEAN INFORMATION

**CAUTION:** SUBSTANCE NOT YET FULLY TESTED.

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DO NOT BREATHE VAPOR.

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AVOID CONTACT WITH SKIN AND EYES.

**SECTION 16. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SEEGENE SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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