



# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2026  
Date Updated: January 5, 2026

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

**Product Name** 1kb DNA ladder  
**Product Code(s)** 9K-004-0001  
**Recommended Use** For Laboratory Research Use Only  
Not for Human or Animal Drug Use

**Supplier** Bio Basic Inc.  
**Address** 20 Konrad Crescent, Markham, Ontario,  
Canada, L3R 8T4  
**Telephone** (905) 474 4493  
**Fax** (905) 474 5794  
**For Chemical Emergency Phone#** (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### Classification of the substance or mixture

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. ----- FIRST-AID MEASURES-----

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

### In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### In case of eye contact

Flush eyes with plenty of water. Remove contact lenses.

### If swallowed

Never give anything by mouth to an unconscious person. Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

## SECTION 5. ----- FIREFIGHTING MEASURES-----

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Nature of decomposition products not known.  
Not combustible.  
Ambient fire may liberate hazardous vapours.

**Explosion data - sensitivity to mechanical impact**

No data available

**Explosion data - sensitivity to static discharge**

No data available

**Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----**

**Personal precautions**

Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

**Reference to other sections**

For disposal see section 13.

**SECTION 7. -----HANDLING AND STORAGE-----**

**Precautions for safe handling**

For precautions see section 2.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: see product label  
Storage class (TRGS 510): 10: Combustible Liquids

**Specific end use(s)**

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

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

**Control parameters**

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Exposure controls**

**Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

**Personal protective equipment**

**Hand protection**

Full contact

Material: Nitrile rubber  
Break through time: 480 min  
Glove thickness: 0.11 mm

Splash contact  
Material: Nitrile rubber  
Break through time: 480 min  
Glove thickness: 0.11 mm

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Respiratory protection**

Not required; except in case of aerosol formation.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

**Skin and body protection**

Not required.

**Control of environmental exposure**

Do not let product enter drains.

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

**Appearance**

Form	Liquid
Colour	No data available

**Safety data**

Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	No data available
Relative density	No data available
Water solubility	No data available

Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	None

## SECTION 10. -----STABILITY AND REACTIVITY-----

### Reactivity

No data available

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water

### Conditions to avoid

No data available

### Incompatible materials

Bases, oxidizing agents

### Hazardous decomposition products

In the event of fire: see section 5.

## SECTION 11. -----TOXICOLOGICAL INFORMATION-----

### Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

**Aspiration hazard**

No data available

**Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

**SECTION 12. -----ECOLOGICAL INFORMATION-----**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Endocrine disrupting properties**

No data available

**Other adverse effects**

No data available

**SECTION 13. -----DISPOSAL CONSIDERATIONS-----**

**Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**SECTION 14. -----TRANSPORT INFORMATION-----**

**TDG**

Not regulated as a dangerous good

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**Further information**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. -----REGULATORY INFORMATION-----**

**The ingredients of this product are reported in the following inventories:**

TSCA : Product contains substance(s) not listed on TSCA inventory.

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

**SECTION 16. ----- OTHER INFORMATION-----**

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**