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Rev. 2

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: DNA Ladder – 1KB
Product Code: IB01350 & IB01351
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
Emergency Overview:
Appearance: Clear
Physical State: Liquid
Odor: No information
Hazards not otherwise Classified (HNOC): Not regulated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Non-hazardous ingredients
EC No.: -
REACH Reg. No.: Not Available
CAS No.: None
Weight %: 95 - 100
Classification: -

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
Inhalation: Move to fresh air. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.
Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable
Flash Point: Not determined
Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Explosion Data
Sensitivity to Mechanical Impact: Not sensitive
Sensitivity to Static Discharge: Not sensitive
Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation, especially in confined areas.
Environmental Precautions: See Section 12 for additional ecological information.
Methods for Containment: Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up: Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice.
Storage: Keep container tightly closed in a dry, cool, and well-ventilated place.
Incompatible Products: Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Chemical Name: Non-hazardous Ingredients
ACGIH TLV: -
OSHA PEL: -
NIOSH IDLH: -
Engineering Measures: Showers, Eyewash Stations, Ventilation Systems
Personal Protective Equipment
Eye/Face Protection: Safety glasses with side-shields. Avoid contact with eyes.
Skin & Body Protection: Wear protective gloves/clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Clear |
| Odor: | No information available |
| Odor Threshold: | No information available |
| Decomposition Temp. °C: | No information available |
| Freezing Point: | No information available |
| Initial Boiling Point: | No information available |
| Physical State: | Liquid |
| pH: | No information available |
| Flash Point: | Not determined |
| Autoignition Temp. °C: | No data available |
| Boiling Point/Range: | No data available |
| Melting Point/Range: | No data available |
| Flammability Limits (Air): | <u>Upper</u> -No data available * <u>Lower</u> -No data available |
| Explosive Properties: | No information available |
| Oxidizing Properties: | No information available |
| Evaporation Rate: | No information available |
| MMHG @ 37.8°C: | No data available |
| Vapor Density: | No data available |
| Specific Gravity: | No data available |
| Solubility: | No information available |
| Partition Coefficient (n-octanol/water): | No data available |
| Viscosity: | No information available |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | Stable under recommended storage conditions |
| Incompatible Products: | Strong oxidizing agents |
| Conditions to Avoid: | Extremes of temperature and direct sunlight |
| Hazardous Decomposition Products: | None known based on information supplied. |
| Hazardous Polymerization: | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------|--|
| Product Information: | Inhalation: There is no data available for this product Eye Contact: There is no data available for this product Skin Contact: There is no data available for this product Ingestion: There is no data available for this product |
|----------------------|--|

| | |
|------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| LD50 Oral: | - |
| LD50 Dermal: | - |
| LC50 Inhalation: | - |

Information on toxicological effects

| | |
|-----------|--------------------------|
| Symptoms: | No information available |
|-----------|--------------------------|

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--------------------|---------------------------|
| Sensitization: | No information available. |
| Mutagenic Effects: | No information available. |
| Carcinogenicity | No information available. |

| | |
|---------------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| ACGIH: | - |
| IARC: | - |
| NTP: | - |
| OSHA: | - |
| Reproductive Toxicity | No information available |
| STOT – single exposure | No information available |
| STOT – repeated exposure | No information available |
| Aspiration hazard | No information available |

12. ECOLOGICAL INFORMATION

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| | |
|-----------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| Algae/Aquatic Plants: | - |
| Toxicity to Fish: | - |
| Crustacea | - |

Persistence and Degradability No information available

Bioaccumulation/Accumulation No information available

| | |
|------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| Partition coefficient: | - |

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Do not re-use empty containers.

| | |
|-------------------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| RCRA-Halogenated Organic Compounds: | - |
| RCRA-P Series Wastes: | - |
| RCRA-F Series Wastes: | - |
| RCRA-K Series Wastes: | - |

| | |
|------------------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| California Hazardous Waste Status: | - |

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

International Inventories

| | |
|----------------|-----------------|
| TSCA: | Does not comply |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS: | Does not comply |
| ENCS: | Does not comply |
| IECSC: | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Sub.
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
AICS: Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| | |
|------------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| CWA – Reportable Quantities: | - |
| CWA – Toxic Pollutants: | - |
| CWA – Priority Pollutants: | - |
| CWA – Hazardous Substances: | - |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| | |
|-------------------------------------|---------------------------|
| Chemical Name: | Non-hazardous Ingredients |
| Hazardous Substances RQs: | - |
| Extremely Hazardous Substances RQs: | - |
| RQ: | - |

U.S. State Right-to-Know Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

| | |
|---------------|---------------------------|
| State | Non-hazardous Ingredients |
| Massachusetts | - |
| New Jersey | - |
| Pennsylvania | - |

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated.

International Regulations

Canada No information available

16. OTHER INFORMATION

| | |
|----------------------------------|---|
| Issuing Date: | 19-Jan-2016 |
| Revision Date: | 19-JUN-2018 |
| Revision Note: | Updated address and logo |
| Recommended Restrictions: | No information available |
| 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 test. |

End of Safety Data Sheet