

# SAFETY DATA SHEET

## SHARP Isothermal Amplification Kit



**Document Type** US – OSHA GHS

**Revision Date** 2-Dec-2025

**Version** 1

### 1. Identification

#### Product identifier

**Product name** SHARP Isothermal Amplification Kit

#### Other means of identification

**Synonym** SHARP 200 Reaction Kit

#### Recommended use and restrictions

**Recommended use** For research use only

**Restrictions on use** Not for human or animal consumption.

#### Supplier information

**Supplier Address** SHARP Diagnostics, Inc.  
1812 Ashland Avenue  
Baltimore, MD 21205  
USA

#### Emergency telephone number

**Company Phone Number** 410-499-8818

**Email Address** support@sharpx.com

## 2. Hazard(s) Identification

### **Classification**

This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Label elements**

Hazard Statements

This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified.

### **Other information**

No information available.

## 3. Composition/Information on Ingredients

### **Substance or mixture**

This product consists of multiple aqueous solutions supplied in separate tubes. All mixtures contain no ingredients classified as hazardous under 29 CFR 1910.1200 at concentrations requiring disclosure

### **Kit components**

<b>SHARP helicase</b>	enzyme solution in buffered aqueous medium
<b>SSB</b>	protein in buffered aqueous medium
<b>Bst-LF polymerase</b>	enzyme solution in buffered aqueous medium
<b>ATP solution</b>	aqueous nucleotide solution
<b>dNTP mix</b>	aqueous nucleotide mixture
<b>Reaction buffer</b>	aqueous buffer containing salts

## 4. First-Aid Measures

### Description of first-aid measures

Inhalation	Move to fresh air.
Skin contact	Wash affected area with soap and water.
Eye contact	Rinse thoroughly with water for several minutes. Seek medical attention if discomfort persists.
Ingestion	Rinse mouth with water. Seek medical advice if feeling unwell.

### Most important symptoms and effects, both acute and delayed

No information available

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

## 5. Fire-Fighting Measures

### Suitable extinguishing media

Use extinguishing media appropriate for surrounding materials. Product is not flammable.

### Unsuitable extinguishing media

None known.

### Specific hazards arising from the chemical

No special hazards expected. Thermal decomposition may produce irritating fumes.

### Protective equipment and precautions for firefighters

Firefighters should wear standard protective gear and self-contained breathing apparatus as appropriate for surrounding fire conditions.

## 6. Accidental Release Measures

### **Personal precautions, protective equipment, and emergency procedures**

Ensure adequate ventilation. Avoid contact with eyes and skin. Use standard laboratory PPE (gloves, lab coat, eye protection).

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

Small spills can be wiped up with absorbent material and washed away with water. For larger spills, absorb with appropriate material, collect in a suitable container, and dispose of according to local regulations.

## 7. Handling and Storage

### **Precautions for safe handling**

Handle in accordance with good laboratory practices. Avoid contact with eyes and skin. Do not ingest.

### **Conditions for safe storage, including any incompatibilities**

Store components according to kit instructions. Keep containers tightly closed. Protect from excessive heat. Enzyme components should be stored at recommended temperatures to maintain activity.

## 8. Exposure Controls/Personal Protection

### **Control parameters**

No exposure limits are established for any components of this product.

### **Appropriate engineering controls**

Use in a well-ventilated area. Normal laboratory engineering controls (e.g., eyewash station, sink, ventilation) are sufficient.

### **Individual protection measures**

#### **Eye/face protection**

Wear safety glasses or chemical splash goggles to prevent splashes.

#### **Skin and body protection**

Wear appropriate laboratory gloves and a lab coat.

#### **Respiratory protection**

Not required under normal handling conditions.

#### **General hygiene considerations**

Handle in accordance with good laboratory hygiene practices. Wash hands after handling.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	No detectable odor
<b>Odor threshold</b>	No data available
<b>pH</b>	7.4 – 8.2 (all kit components fall within this range)
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	Not flammable
<b>Evaporation rate</b>	No data available
<b>Flammability (solid/gas)</b>	Not applicable
<b>Upper/lower flammability limits</b>	Not flammable
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility(ies)</b>	Soluble in water
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Auto-ignition temperature</b>	Not flammable
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not classified as explosive
<b>Oxidizing properties</b>	Not classified as oxidizing

## 10. Stability and Reactivity

### Reactivity

None known under normal conditions of use.

### Chemical stability

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None known under normal handling and storage.

**Conditions to avoid**

Excessive heat or repeated freeze–thaw cycles.

**Incompatible materials**

None known.

**Hazardous decomposition products**

None known.

**11. Toxicological Information**

This product has not been tested as a mixture. Toxicological assessments are based on evaluation of its components, none of which are present at hazardous concentrations.

**Information on likely routes of exposure**

<b>Inhalation</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Ingestion</b>	No data available.

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

<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory or skin sensitization</b>	No data available; enzyme aerosols may pose sensitization risk if improperly handled.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	No data available; no components are listed as carcinogens.
<b>Reproductive toxicity</b>	No data available.
<b>STOT-single exposure</b>	No data available.
<b>STOT-repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	Not applicable

## 12. Ecological Information

This product has not been tested as a mixture. Ecological expectations are based on evaluation of individual components.

### **Toxicity**

No data available. Components are not expected to be hazardous to aquatic or terrestrial environments at the concentrations present.

### **Persistence and degradability**

No data available. Organic components (proteins, nucleotides) are expected to be biodegradable.

### **Bioaccumulative potential**

No data available. Components are not expected to bioaccumulate.

### **Mobility in soil**

No data available. Components are water-soluble and expected to exhibit high mobility in aqueous environments.

### **Other adverse effects**

No additional known environmental hazards.

## 13. Disposal Considerations

### **Waste treatment methods**

Dispose of in accordance with local regulations. Dispose of waste in accordance with

### **Contaminated packaging**

Dispose of empty containers as non-hazardous laboratory waste. Do not reuse containers.

## 14. Transport Information

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>AND</b>	Not regulated

## 15. Regulatory Information

### U.S. Federal Regulations

This product is not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product does not contain substances subject to reporting under SARA Title III Sections 302, 304, or 313.

This product does not contain CERCLA hazardous substances or Clean Water Act hazardous substances at concentrations requiring reporting.

### U.S. State Regulations

This product does not contain chemicals listed under California Proposition 65 as carcinogens or reproductive toxicants.

No components are present at reportable levels under applicable state right-to-know regulations (e.g., New Jersey, Massachusetts, Pennsylvania).

### Chemical Inventories

Inventory status under TSCA, DSL/NDL, and other national or regional chemical inventories should be confirmed with the supplier for specific regulatory applications.

## 16. Other Information

### Preparation information

**Prepared by** SHARP Diagnostics, Inc.

**Revision date** 18-Nov-2025

**Version** 1

### Key/Legend to abbreviations used in this SDS

**OSHA** Occupational Safety and Health Administration

**GHS** Globally Harmonized System of Classification and Labelling of Chemicals

**SDS** Safety Data Sheet

**SARA** Superfund Amendments and Reauthorization Act

**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act

**TSCA** Toxic Substances Control Act

**RUO** Research Use Only



**References**

Information in this SDS is based on the OSHA Hazard Communication Standard (29 CFR 1910.1200), GHS guidelines, publicly available component safety data sheets, and standard toxicological and regulatory databases.

**Disclaimer**

The information provided in this Safety Data Sheet is believed to be accurate as of the revision date and is offered in good faith. It is intended to describe the safety requirements for handling, use, storage, and disposal of this product. No warranty is expressed or implied regarding its accuracy or suitability for any particular purpose. Users are responsible for ensuring safe conditions of use and compliance with applicable laws and regulations.