

Doc Name:	Material Safety Data Sheet (MSDS) for Hot Start Taq Polymerase Enzyme (5U/μL)		
Doc No.	MSDS/HL/041	Ver No:00	Effective from: 02/11/23

1	Company identification	HLSS Manufacturing Pvt Ltd Plot No's M14, M15, M16, TSIIC Medical device park Sulthanpur villiage, Ameenpur Mandal, Sangareddy Dist, TS-502319 Emergency Contact Tel: +91-08413-232256/ +91 9052226226 Email: info@huwellifesciences.com http://www.huwellifesciences.in	
2	Product identification		
2.1	Name of the Product	: HotStart Taq Polymerase Enzyme (5U/µL)	
2.2	Product Code	: HL-HSTaq-50 HL-HSTaq-100 HL-HSTaq-200	
2.3	Pack size (No. of rxns)	: 250 Units, 500 Units, 1000 Units	
2.4	Intended use:	HotStart Taq Polymerase is a chemically modified DNA-dependent polymerase designed to be inactive at room temperature. The active site of Hot Start Taq Polymerase is blocked by a chemical modification that only gets released at higher temperatures. This technology helps in avoiding unwanted amplification at temperatures below 45°C and thus allows the reactions to be set up at room temperature. The enzyme helps in non-specific amplification and has a 5' -> 3' polymerase activity.	
2.5	Composition/ Information on reagents:	The product contains HotStart Taq Polymerase Enzyme (5U/ μ l), 25mM Magnesium Chloride (500 μ l) and 10X Taq buffer with MgCl ₂ (1mL). Note : This product is for research use only. This product must be used by scientists/ laboratory technicians with strong knowledge on molecular biology as per Good Laboratory practice (GLP) and product insert/instruction manual.	
3	Hazards identification	Significant health effects are not anticipated from routine use of this kit when following the precautions listed within this MSDS and the kit specific package insert. None of the components listed within this kit are considered hazardous as defined by the Occupational Safety and Health Administration (OSHA). OSHA Hazards Inhalation Ingestion Skin Contact You information available. No information available. No information available. No information available. No information available.	
4	First-Aid Measures	For all incidents, a medical exam is desirable	

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Caution

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		Inhalation : Move to fresh air area.		
		Ingestion : Rinse mouth, seek medical advice if immediate vomiting		
		Skin Contact : Wash copiously with water and soap.		
		Eye Contact : Flush eyes copiously with water and seek medical advice		
5	Fire-fighting Measures	Extinguishing media: Use any mean suitable to extinguish the surrounding fire		
		CAUTION: Use of water spray when fighting fire may be inefficient.		
		Un-extinguishing media : No information available		
		Special hazards of product: No information available		
		Protective equipment For fire fighting: Carry an autonomous respiratory		
		protection apparatus and appropriate protection clothes		
6	Accidental release	Individual Precaution: Use an individual protection equipment		
	Measures	Environmental Precaution: If incident, let flow run copiously		
		Method of cleaning: Clean with an inert absorbent		
7	Handling and storage	No specific recommendation is requested. Always store in frozen condition, Observe all conditions described in the user manual and on the labels. As with all chemical and biological substances, avoid getting the components within this kit spilled on you or into your body. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal precautions to be followed when		
		handling and working with this kit.		
8	Exposure controls			
8.1	Exposure limits	: No information available		
9	Personnel	Respiratory protection : No information available		
	Protection	Hands protection: Wear water-proof gloves		
		Eyes protection: Use chemical safety goggles		
		Skin protection: Wear lab coat		
		Hygiene measures: Follow good laboratory hygiene practices and security Instructions		
10	Physical and			
	Chemical			
	properties			
10.1	Physical state	: Liquid Chemical, physical, and toxicological properties have not been thoroughly investigated		
11	Stability and	Stability: Stable under conditions described in the Product insert		

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Toxicological	D	
	Potential effects on health	
information	Eyes	: No information available
	Skin	: No information available
	Inhalation	: No information available
	Ingestion	: No information available
	Special Effects	
	Carcinogen	: No information available
	Mutagen	: No information available
	Toxicity for reproduction	: No information available
	Sensitization	: No information available
Ecological	Mobility	: No information available
information	Persistence/degradation	: Intrinsically biodegradable
	Bioaccumulation	: No information available
	Aquatic Toxicity	: No information available
	Disposal Considerations & re	equirements : Dispose in accordance with
	state and local regulations	
Transportation information	The product is not dangerous. Follow IATA regulations	
Regulatory	No information available	
information		
Other Information	from handling or being in contact with this product. Customer is solely responsible for improper usage of this product other than for what this product is designed to use. The kit and its components may present unknown hazards and should be used with caution. Improper use and/or inappropriate combination with other products and substances may	
	produce narmful results.	
	-End-	
	information Transportation information Regulatory information	Inhalation Ingestion Special Effects Carcinogen Mutagen Toxicity for reproduction Sensitization Ecological Information Mobility Persistence/degradation Bioaccumulation Aquatic Toxicity Disposal Considerations & restate and local regulations Transportation Information Regulatory Information Regulatory Information Other Information HLSS Manufacturing Pvt Ltform handling or being in responsible for improper us product is designed to use unknown hazards and show inappropriate combination produce harmful results.

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