

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PCR Master Mix + Hot Start DRY

Catalog Number: R02160

Manufacturer/Supplier: Chai Biotechnologies Inc.  
990 Richard Avenue, Suite 110  
Santa Clara, CA 95050

Phone: +1 (650) 779-5577

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

## 2. HAZARD IDENTIFICATION

Component	Description	Safety Information
PCR Master Mix + Hot Start, DRY	Mixture containing 3-10% trehalose dihydrate	Not a hazardous substance or mixture. May cause mild irritation to the skin
Reconstitution Buffer	Mixture containing 1-5% glycerol	Not a hazardous substance or mixture. May cause mild irritation to the skin or respiratory system.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Weight %	Formula	Molecular Weight
Trehalose dihydrate	6138-23-4	202-739-6	3-10	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> -2H <sub>2</sub> O	378.33
Glycerol	56-81-5	200-289-5	1-5	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	92.09

## 4. FIRST AID MEASURES

A	Skin Contact	Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.
B	Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.
C	Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
D	Inhalation	Move person to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
E	Notes to Physician	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

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|---|----------------------|--|
| A | Extinguishing method | Ordinary extinguishing procedures can be used in case of fire. |
| B | Extinguishing agent  | Water, powder, CO <sub>2</sub> , or bubble foam can be used.   |
| C | Extinguishing media  | No prohibited media.   |

## 6. ACCIDENTAL RELEASE MEASURES

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|---|---------------------------|---|
| A | Personal precautions      | Avoid breathing vapors, mist or gas. Use personal protection equipment.   |
| B | Environmental precautions | Prevent product from entering drains.   |
| C | Methods for cleaning up   | Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. |

## 7. HANDLING AND STORAGE

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|---|----------|--|
| A | Handling | Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment. |
| B | Storage  | Store protected from light and in properly labeled containers.                           |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Components with workplace control parameters

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|---|-------------------------------|--|
| A | Substance                     | PCR Master Mix + Hot Start, DRY; Reconstitution Buffer   |
| B | Control parameter             | Prevent product from entering drains.  |
| C | Personal protective equipment | Hand Protection: 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.<br>Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).<br>Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).<br>Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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	PCR Master Mix + Hot Start, DRY	Reconstitution Buffer
Appearance (physical state, color etc.)	Colorless solid	Colorless liquid
Odor	No information available	No information available
Odor threshold	No information available	No information available
pH	No information available	No information available
Melting point/freezing point	No information available	No information available
Initial boiling point and boiling range	No information available	No information available
Flash point	No information available	No information available
Evaporation rate	No information available	No information available
Flammability	No information available	No information available
Upper/lower flammability or explosive limits	No information available	No information available
Vapor pressure	No information available	No information available
Vapor density	No information available	No information available
Solubility	Soluble in Reconstitution Buffer	No information available
Partition Coefficient	No information available	No information available
Relative Density	No information available	No information available
Auto-ignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Viscosity	No information available	No information available

## 10. STABILITY AND REACTIVITY

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	PCR Master Mix + Hot Start, DRY	Reconstitution Buffer
Chemical stability	Stable under recommended storage conditions	Stable under recommended storage conditions
Possibility of hazardous reactions	No Information available	No Information available
Conditions to avoid (e.g. static discharge, shock or vibration)	No Information available	No Information available
Incompatible materials	No Information available	Strong oxidizing agents
Hazardous decomposition products	No Information available	No Information available

## 11. TOXICOLOGICAL INFORMATION OF COMPONENTS

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	Trehalose	Glycerol
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	No Information available	No Information available
Symptoms related to the physical, chemical and toxicological characteristics	No Skin (human) irritation	Mild skin irritation in rabbits
Delayed and immediate effects; and chronic effects from short and long term exposure	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals	No Information available
Numerical measures of toxicity (such as acute toxicity estimates)	No Information available	No Information available

## 12. ECOLOGICAL INFORMATION

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	PCR Master Mix + Hot Start, DRY; Reconstitution Buffer
Ecotoxicity (aquatic and terrestrial, where available)	No Information available
Persistence and degradability	No Information available
Bioaccumulative potential	No Information available
Mobility in the soil	No Information available
Other adverse effects	No Information available

## 13. DISPOSAL INFORMATION

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Dispose of contents/containers in accordance with local regulations.

## 14. TRANSPORT INFORMATION

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A	UN number	None
B	UN proper shipping name	No dangerous good in sense of these transport regulations
C	Transport hazard class	None
D	Packing group	None
E	Environmental hazards (e.g.: Marine pollutant)	None
F	Special precautions for user	None

## 15. REGULATORY INFORMATION

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A	SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
B	SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

## **16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

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For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"