



# SAFETY DATA SHEET

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

Version: 2019

Date Updated: March 04, 2019

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

Product Name HotStart PCR Master mix (2X, Green Dye)  
 Product Code(s) BS9291  
 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 -----

### GHS-Classification

Signal Word  
 Not Hazardous

Health Hazard  
 Not Hazardous

Physical Hazards  
 Not Hazardous

### Principle Routes of Exposure/Potential Health Effects

Eyes May cause eye irritation with susceptible persons.  
 Skin May cause skin irritation in susceptible persons.  
 Inhalation May be harmful by inhalation.  
 Ingestion May be harmful if swallowed.

### Specific Effects

Carcinogenic Effects None  
 Mutagenic Effects None  
 Reproductive Toxicity None  
 Sensitization None

Target Organ Effects No known effects under normal use conditions.

### WHMIS

Health	0
Flammability	0
Reactivity	0

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

Chemical Name	CAS-No	EINECS-No	Weight %
Trade Secret	Proprietary	Proprietary	7-13
Trade Secret	Proprietary	Proprietary	1-5
Trade Secret	Proprietary	Proprietary	<0.1
Trade Secret	Proprietary	Proprietary	<0.1
Trade Secret	Proprietary	Proprietary	<0.1
Trade Secret	Proprietary	Proprietary	<0.1

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-----

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Notes to physician</b>	Treat symptomatically.

#### SECTION 5. ----- FIRE FIGHTING MEASURES-----

<b>Suitable extinguishing media</b>	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment for fire-fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>Unusual Fire and Explosions Hazard(s)</b>	N/A
<b>Flash Point</b>	N/A
<b>Autoignition Temp</b>	N/A
<b>Flammability</b>	N/A

#### SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors. Wear disposable coveralls and discard them after use.
<b>Methods for Cleaning-up</b>	Soak up with inert absorbing materials and place in a closed container for disposal. Ventilate area and wash spill site after material pickup is complete.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. See Section 12 for additional information.

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

**Handling** Always wear recommended Personal Protective Equipment. No special handling required.  
**Storage** Keep cap tightly closed. Store at -20°C.

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

**Exposure Limits**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Trade Secret	15mg/m <sup>3</sup>	-	-	-

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

Personal Protective Equipment requirements are dependent of the user institution’s risk assessment, and are specific to the each laboratory where this material may be used.

**Respiratory Protection** Wear Suitable respiratory equipment if ventilation is insufficient.  
**Hand** Compatible chemical-resistant gloves.  
**Eye** Compatible safety goggles.  
**Skin and body protection** Lightweight protective clothing.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls**

Prevent product entering drains

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

**General Physical Properties**

**Form** Liquid  
**Appearance** Green  
**Odor** Mild  
**Boiling Point/Range** No information available  
**Melting Point/Range** No information available  
**Flash Point** No information available  
**Auto-ignition Temperature** No information available  
**Oxidizing Properties** No information available  
**Solubility** No information available  
**pH Range** No information available

**SECTION 10. ----- STABILITY AND REACTIVITY -----**

**Stability** Stable under normal conditions.  
**Materials to Avoid** No dangerous reaction known under normal conditions.  
**Hazardous Decomposition Products** None under normal conditions.  
**Hazardous Polymerization** Does not occur.

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

**Acute Toxicity**

Chemical Name	LD (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Trade Secret	>90 mL/kg (Rat)	-	-
Trade Secret	=12600 mg/kg (Rat)	> 10g/kg (Rabbit)	> 570 mg/m <sup>3</sup> (Rat) 1h
Trade Secret	=14500 mg/kg (Rat)	=40 g/kg (Rat)	-
Trade Secret	=2600 mg/kg (Rat)	-	-

**Principle Route of Exposure/Potential Health Effects**

**Eye** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**Inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

**Carcinogenic Effects** None  
**Mutagenic Effects** None  
**Reproductive Toxicity** None  
**Sensitization** None

**Target Organ Effects** No known effects under normal use conditions.

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

**Ecotoxicity Effects** No information available.  
**Mobility** No information available.  
**Biodegradation** Inherently biodegradable.  
**Bioaccumulation** Does not bioaccumulate.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data
Trade Secret	-	500: 24 h Daphnia magna mg/L EC50	51-57: 96 h Oncorhynchus mykiss mL/L LC50 static
Trade Secret	12350-25500: 96 h Skeletonema costatum mg/L EC50	7000: 24 h Daphnia species mg/L EC50	34000: 96 h Pimephales promelas mg/L LC50 33 - 37: 96 h Oncorhynchus mykiss g/L LC50 static 40: 96 h Lepomis macrochirus g/L LC50 static 41.7: 96 h Cyprinus carpio g/L LC50
Trade Secret	2500: 72 h Desmodium	825: 48 h Daphnia magna mg/L EC50 83:	1060: 96 h Lepomis macrochirus mg/L LC50
	subspicatus mg/L EC50	48 h Daphnia magna mg/L EC50 Static	static 750 - 1020: 96 h Pimephales promelas mg/L LC50 static
Trade Secret			431 - 495: 96 h Pimephales promelas mg/L LC50 flow-through

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

Dispose of in accordance with local regulations.

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

**IATA**

<b>Proper Shipping Name</b>	Not classified as dangerous under the transport regulations.
<b>Hazard Class</b>	None
<b>Subsidiary Class</b>	None
<b>Packing Group</b>	None
<b>Un-No</b>	None

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

<b>Component</b>	<b>TSCA</b>
Trade Secret	Listed
Trade Secret	Listed
Trade Secret	Listed
Trade Secret	Listed
Trade Secret	Listed
Trade Secret	Listed

**U.S. Federal Regulations**

**SARA 313**

Not Regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)**

Contains no HAPs.

**U.S. State Regulations**

**California Proposition 65**

Contains no chemical listed under Proposition 65.

**Canadian Regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

**WHMIS Hazard Class**

Not controlled.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**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**