

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product code** 95053-100, 95053-500, 95053-02K.  
**Product name** PerfeCta™ SYBR® Green SuperMix for iQ™

**Manufacturer**  
QUANTA BIOSCIENCES INC.  
202 PERRY PKWY., SUITE 1  
GAITHERSBURG, MD 20877  
301-956-1670

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous/Non-hazardous Components**

Chemical Name	CAS-No	Weight %
Dimethyl Sulfoxide	67-68-5	<10

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

Irritating to eyes. Irritating to skin. Components of the product may be absorbed into the body through the skin.

**Form**  
Liquid

**Potential Health Hazards**

**Eyes** Irritating to eyes.  
**Skin** Irritating to skin. Components of the product may be absorbed into the body through the skin  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** May be harmful if swallowed.

**Specific Effects**

**Carcinogenic effects** No information available  
**Mutagenic effects** No information available  
**Reproductive toxicity** No information available  
**Sensitization** No information available

**Target Organ Effects** Eyes. Skin.

**4. FIRST AID MEASURES**

**Skin contact** Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.  
**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. If irritation persists, get medical attention.  
**Ingestion** Never give anything by mouth to an unconscious person  
**Inhalation** Move to fresh air  
**Notes to physician** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Dry chemical  
**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Use personal protective equipment  
**Methods for cleaning up** Soak up with inert absorbent material

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin and eyes.  
**Storage** Keep in properly labeled containers

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure controls**

**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Dimethyl Sulfoxide	-	-	-	-

**Engineering measures** Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment  
**Hand protection** Protective gloves  
**Eye protection** Safety glasses with side-shields  
**Skin and body protection** Lightweight protective clothing  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice  
**Environmental exposure controls** Prevent product from entering drains

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

**Form** Liquid

**Important Health Safety and Environmental Information**

<b>Boiling point/range</b>	°C 189	°F No data available
<b>Melting point/range</b>	°C 18.4	°F No data available
<b>Flash point</b>	°C 94	°F No data available
<b>Autoignition temperature</b>	°C No data available	°F No data available
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	Soluble	

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions  
**Materials to avoid** No information available  
**Hazardous decomposition products** No information available  
**Polymerization** Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Dimethyl Sulfoxide	14500 mg/kg (Rat)	No data available	No data available

### Principle Routes of Exposure/ Potential Health Effects

Eyes	Irritating to eyes.
Skin	Irritating to skin. Components of the product may be absorbed into the body through the skin.
Inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.

### Specific Effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

Target Organ Effects                      Eyes. Skin.

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

## 14. TRANSPORT INFORMATION

### IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard Class	No information available
Subsidiary Class	No information available
Packing group	No information available
UN-No	No information available

## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
Dimethyl sulfoxide	Listed	Listed	Listed	Listed	-	Listed

### U.S. Federal Regulations

#### SARA 313

Not regulated

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

## U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
Dimethyl sulfoxide	-	-	-	-	-

### California Proposition 65

This product contains the following Proposition 65 chemicals:

### WHMIS Hazard class

D2B Toxic materials

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

## 16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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 be present unknown hazards and should be used with caution. Since Quanta BioSciences 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 MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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**END of Safety Data Sheet**