# **Safety Data Sheet**

# **Blue Beacon GI Maker**

Version: V1.0.0.1

Creation Date : 2019/07/18 Revision Date : 2019/07/18

# 1 Identification of the chemical and supplier

### Productidentifier

Product Name	Blue Beacon GI Maker
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

## Relevant identified uses of the substance or mixture and uses advised against

	It is indicated for temporary endoscopic marking of tissue in the GI tract, to aid tissue visualization.	
Uses advised against	Please consult manufacturer.	

## Details of the supplier of the Safety Data Sheet

Name of the company	Micro-Tech (Nanjing) Co., Ltd.
	No. 10, Gaoke Third Road, National New & High Technology Industrial Development Zone, Nanjing, Jiangsu, PRC
Post code	210032
Telephone number	+86-400-025-3000
Fax number	+86-25-58744269
E-mail address	info@micro-tech.com.cn

## Emergency phone number

	***
<b>Emergency phon</b>	+86-25-58609879
numbe	r

# 2 Hazards identification

# Hazard classification according to GHS

Hazard classification according to GHS	Not applicable
according to GHS	

#### Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

#### Hazard statements

Hazard statements	Not applicable

### Precautionary statements

<sup>\*</sup>Prepared according to American OSHA HazCom Standard (2012)

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### Prevention

Prevention N	ot applicable
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Response

Response	Not applicable
Izeaponae	Hitot applicable

Storage

Storage	Not applicable
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Disposal

Disposal	Not applicable

### Other hazards

Not applicable

# | Hazard description

Physical and chemical hazards

Liquid, soluble in water, no harm in general situation.

## Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	i iliulviqual.
Skin Contact	The product may cause an allergic skin reaction following direct contact with the skin.
Eye	This product may cause temporary discomfort following direct contact with the eye.

## ♦ Environmental hazards

Please refer to 12th chapter of SDS.

# 3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
Indigo-5,5'-Disulfonate	860-22-0	212-728-8	Commercial secrets
Sodium Pyrosulfite	7681-57-4	231-673-0	Commercial secrets
Water for Injection	7732-18-5	231-791-2	Commercial secrets

# 4 First aid measures

## Description of first aid measures

General advice	the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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	Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.	
Pro	otecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.	
Mo	ost important sympto	oms and effects, both acute and delayed	
1	1 Cumulative effects may result following exposure.		
	Cumulative effects ma	ay result following exposure.	
_	1	diate medical attention and special treatment needed	
_	1	diate medical attention and special treatment needed	
Inc	lication of any immed	diate medical attention and special treatment needed	
Inc	Treat symptomatically. Symptoms may be del Firefighting meas	diate medical attention and special treatment needed	
Inc	Treat symptomatically.  Symptoms may be del	diate medical attention and special treatment needed	
Inc 1 2 5	Treat symptomatically. Symptoms may be del Firefighting meas	diate medical attention and special treatment needed	

# Specific hazards arising from the substance or mixture

- May expansion or decompose explosively when heated or involved in fire.
- 2 Development of hazardous combustion gases or vapor possible in the event of fire.

## Advice for firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

# 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist or gas.

#### Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Discharge into the environment must be avoided.

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

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and 2 regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# Handling and storage

## Precautions for handling

- 1 Handling is performed in a well-ventilated place.
- 2 Avoid contact with skin and eyes.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.

## Precautions for storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.
- 8 Exposure controls/personal protection

## Control parameters

Occupational Exposure limit values

Component	Country/Posion	Limit value - Eight hours		Limit value - Short term	
Component	Country/Region	ppm	mg/m³	ppm	mg/m³
	USA - NIOSH	-	5	-	-
	South Korea	-	5	-	-
Sodium	Ireland	-	5	-	-
Pyrosulfite 7681-57-4	France	-	5	-	-
	Denmark	-	5	-	10
	Australia	-	5	-	-

# Biological limit values

Biological limit values | No relevant regulations

- Monitoring methods
- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air ( Series standard ) .

#### | Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 | Set up emergency exit and necessary risk-elimination area.
- 4 Handle in accordance with good industrial hygiene and safety practice.

#### Personal protection equipment

General requirement













Eye protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

**Hand protection** 

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

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	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

# 9 Physical and chemical properties

## Physical and chemical properties

Priysical and chemical properties			
Dark blue homogeneous liquid			
No special odor			
No information available			
<7			
<20			
>35			
>100			
No information available			
Not flammable			
Upper limit : No information available ; Lower limit : No information available			
2.33kPa			
>1			
≈1			
Miscible with water			
No information available			

# 10 Stability and reactivity

# | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous	Under normal conditions of storage and use, hazardous decomposition
decomposition products	products should not be produced.

# 11 Toxicological information

# Acute toxicity

Component	Cas No.	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Sodium Pyrosulfite	7681-57-4	1131mg/kg(Rat)	> 2000mg/kg(Rat)	No information available
Indigo-5,5'-Disulfonate	860-22-0	2000mg/kg(Rat)	No information available	No information available

# Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	860-22-0	Indigo-5,5'-Disulfonate	Not Listed	Not Listed
2	7681-57-4	Sodium Pyrosulfite	Not Listed	Not Listed
3	7732-18-5	Water for Injection	Not Listed	Not Listed

### Others

	Blue Beacon Gl Maker				
Skin corrosion/irritation	Based on available data, the classification criteria are not met				
Serious eye	Based on available data, the classification criteria are not met				
<b>Skin sensitization</b>	May cause an allergic skin reaction				
Respiratory sensitization	Based on available data, the classification criteria are not met				
Reproductive toxicity	Based on available data, the classification criteria are not met				
STOT-single exposure	Based on available data, the classification criteria are not met				
STOT-repeated exposure	Based on available data, the classification criteria are not met				
Aspiration hazard	Based on available data, the classification criteria are not met				
Germ cell mutagenicity	Based on available data, the classification criteria are not met				
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met				

# 12 Ecological information

# Acute aquatic toxicity

Acute aquatic toxicity No information available

# Chronic aquatic toxicity

Chronic aquatic toxicity No information available

# Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Sodium Pyrosulfite	7681-57-4	Low	Low
Water for Injection	7732-18-5	Low	Low
Indigo-5,5'-Disulfonate	860-22-0	High	High

# Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
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Sodium Pyrosulfite	7681-57-4	Low	Log K <sub>ow</sub> =-3.7		
Water for Injection	7732-18-5	Low	Log K <sub>ow</sub> =-1.38		
Indigo-5,5'-Disulfonate	860-22-0	Low	Log K <sub>OW</sub> =-0.9914		

## Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)				
Sodium Pyrosulfite	7681-57-4	Medium	2.989				
Water for Injection	7732-18-5	Low	14.3				
Indigo-5,5'-Disulfonate	860-22-0	Low	99.07				

#### Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Indigo-5,5'-Disulfonate	860-22-0	not PBT/vPvB
Sodium Pyrosulfite	7681-57-4	not PBT/vPvB
Water for Injection	7732-18-5	not PBT/vPvB

# 13 Disposal considerations

## Disposal considerations

	Wastechemicals	Before disposal should refer to the relevant national and local laws and				
wastechemicals		regulation. Recommend the use of incineration disposal.				
	Contaminated	Containers may still present chemical hazard when empty. Keep away from hot				
	packaging	and ignition source of fire. Return to supplier for recycling if possible.				
	Disposal	Refer to section 13.1 and 13.2.				
	recommendations	Refer to section 13. Tand 13.2.				

# 14 Transport information

### Label and Mark

Transporting Label	Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## ICAO/IATA-DGR

ICAO/IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# 15 Regulatory information

#### International chemical inventory

<u>-                                      </u>									
Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Component	EINECS	ISCA	DSL	IECSC	INZIOC	11005	IXECI	AICS	ETICS

#### Blue Beacon Gl Maker

Indigo-5,5'-Disulfonate	√	√	√	√	√	√	√	√	√
Sodium Pyrosulfite	√	√	√	√	√	√	√	√	√
Water for Injection	√	√	√	√	√	√	√	√	×

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**▼**EINECS **→** European Inventory of Existing Commercial Chemical Substances

▼TSCA United States Toxic Substances Control Act Inventory

**Canadian Domestic Substances List** 

▼IECSC China Inventory of Existing Chemical Substances

■ NZIoC New Zealand Inventory of Chemicals

▼PICCS Philippines Inventory of Chemicals and Chemical Substances

**KECI** Existing and Evaluated Chemical Substances

【 AICS 】 Australia Inventory of Chemical Substances

**EXISTING** Existing And New Chemical Substances

Note

" $\sqrt{}$ " Indicates that the substance included in the regulations

"×" That no data or included in the regulations

# 16 Others

#### Information on revision

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Creation Date	2019/07/18
Revision Date	2019/07/18
Reason for revision	-

#### Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home. [2]IARC,

website: http://www.iarc.fr/.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en.

[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.

[5]NLM: ChemIDplus, website: <a href="http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp">http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp</a>.

[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.

[7]U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.

[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

### Abbreviations and acronyms

CAS-Chemical Abstracts Service

PC-STEL- Short term exposure limit

**DNEL** - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC<sub>50</sub> - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

CMR-Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD<sub>50</sub>-Lethal Dose 50%

 $\textbf{EC}_{50}$  - Effective Concentration 50%

POW - Partition coefficient Octanol: Water

vPvB - very Persistent, very Bioaccumulative

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IMDG-International Maritime Dangerous Goods
ICAO/IATA-International Civil Aviation Organization/International Air
Transportation Association

UN-The United Nations
ACGIH-American Conference of Governmental Industrial Hygienists

NFPA-National Fire Protection Association
OECD-Organization for Economic Co-operation and Development

#### Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HazCom Standard (2012). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user so reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.