Product Black Eye Endoscopic Marker

Revision date 26 March 2019

Revision 4



# Safety Data Sheet (SDS)

## 1. Product and Company Information

Product nameBlack Eye Endoscopic MarkerCompanyThe Standard Co. Ltd.

Address #120, GunpoCheomdansaneop 2-ro, Gunpo-si, Gyeonggi-do, 15880, Republic of Korea

 Telephone
 +82 2 838 5533

 Fax
 +82 2 828 5523

 Website
 www.thestandard.co.kr

Recommeded use of the chemical and restrictions on use

Recommended use Materials for medical treatment

Restrictions on use No data available

## 2. Hazards Identification

## Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Physical hazard Not applicable
Health hazard Not applicable
Environment hazard Not applicable

#### Lable elements including precautionary statements

Symbol / Signal word Not applicable
Hazard statements Not applicable
Precautionary statement Not applicable

# NFPA Rating

Health 0
Flammability 0
Reactivity 0
Water reactivity 0

## 3. Composition / Information on Ingredients

Ingredients	CAS No.	EINECS No.	Conc. %
Water for injection	7723-18-5 From *US NLM	231-791-2 From **ECHA	99.678%
Glycerin	56-81-5	200-289-5	0.150%
Polysorbate 80	9005-65-6	500-019-9	0.020%
Benzyl alcohol	100-51-6	202-859-9	0.050%
Carbon black	1333-86-4	215-609-9	0.10%
Siliconized silica	67762-90-7	614-122-2	0.002%

<sup>\*</sup> UC NLM: U.S. National Library of Medicine, http://chem.sis.nlm.nih.gov/chemidplus/

<sup>\*\*</sup> ECHA: European chemical agency, http://echa.europa.eu/

#### 4. First aid measures

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact No data available

If inhaled If breathed in, move person into fresh air.

If swallowed Never give anything by mouth to an unconscious person.

Other medical attention Medical personnel should be aware of the protective measure of the substance.

#### 5. Fire-Fighting measures

Flammable properties

Flash point No flash occurred under 250°C (Cleveland open cup)

Autoignition No spontaneous combustion under 200°C

Suitable extinguisher Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

**Specific hazards arising from the chemical**No data available

Special protective equipment for fire-fighters Wear self contained breating apparatus for fire fighting if necessary.

## 6. Accidental release measures

**Personal precautions** Avoid contact with eyes.

**Environmental precautions**No data available

Methods and materials for containment and cleaning up Keep in suitable, closed for disposal.

## 7. Handleing and storage

Precautions for safe handling Avoid contact with eyes.

Condition for safe storage Keep container tightly closed.

## 8. Exposure control / Personal protection

#### Components with workplace control parameter

## KOSHA:

Chemical Name	TWA	STEL
Glycerin	10 mg/m³	-
Carbon black	3.5 mg/m³	-
Siliconized silica	10 mg/m³	-

#### **ACGIH:**

Chemical Name	TWA	STEL
Carbon black	3 mg/m³	-

**Appropriate engineering controls**No data available

Personal protective equipment

Respiratory protectionNo data availableEye protectionProtective gogglesHand protectionNo data availableSkin and body protectionNo data available

#### 9. Physical and Chemical properties

State Liquid at 20 °C

Flash Point No flash occurred under 250 °C (Cleveland open cup)

**Autoignition temperature** No spontaneous combustion under 200 °C

pH  $5.2 \sim 6.2$  at 20 °C Water solubility Soluble at 20 °C Relative density 1.0 at 20 °C

Flammable propertiesNo data availableExplosive propertiesNo data availableMelting rangeNo data available

**Boiling point (Initial)** > 97 °C

 Evaporation rate
 No data available

 Vapour pressure
 No data available

 Decomposition temperature
 No data available

 Partition coefficient (n-octanol/water)
 No data available

**Viscosity**  $< 3.0 \text{ mPa} \cdot \text{s (cP)}$  at 20 °C

Lower explosion limit / Upper explosion limit No data available

Freezing Point -4.8 °C

## 10. Stability and Reactivity

Chemical stability Stable under recommended

Conditions to avoid No data available

Materials to avoid Strong oxidizing agents

Hazardous decomposition products Carbon oxides

## 11. Toxicological Information

Acute toxicity

Oral rat LD50 > 2,000 mg/kg
Inhalation rat LD50 No data available
Skin rabbit LD50 No data available

 Skin Irritation
 Irritating (Siliconized silica)
 \*\* From US NLM / ECHA

 Eye Irritation
 Irriting (Benzyl alcohol, Siliconized silica)
 \*\* From US NLM / ECHA

Respiratory sensitization No data available

(Benzyl alcohol)

Germ cell mutagenicity No data available

(Carbon black)

Reproductive toxicity Suspected of damaging fertility × From US NLM / ECHA

Or the unborn child (Benzyl alcohol)

**\*\*** From US NLM / ECHA

Specific target organ toxicity – single exposure (GHS)No data availableSpecific target organ toxicity – repeated exposure (GHS)No data availableAspiration hazardNo data available

## 12. Ecological Information

**Toxicity** 

Fish LC50 > 100 mg/L  $\times$  From US NLM / ECHA

 $\begin{array}{ccc} Crustacean & EC50 & > 100 \text{ mg/L} \\ Algae & EC50 & > 100 \text{ mg/L} \end{array}$ 

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableOther adverse effectsNo data available

## 13. Disposal Considenrations

**Disposal consideration** Observe all environmental regulations.

**Disposal precaution** Keep in suitable, closed containers for disposal.

## 14. Transport Information

UN TDG Not dangerous goods
IATA Not dangerous goods
IMDG Not dangerous goods
Marine pollution Not applicable

Special precaution

Fire EmS Guide F-A (Recommendation)
Spillage EmS Guide Not dangerous goods

## 15. Regulatory Information

Korea Industrial Safety and Health Act

GHS Not applicable

Material(s) applied by workplace exposure limits Glycerin, Carbon black, Siliconized silica

Korea Chemicals Control Act
Not toxic chemical
Korea Hazardous Materials Safety Control Act
Not hazardous material

Korea Persistent Organic Pollutants Control Act

Not applicable
US OSHA Hazards (GHS)

Not applicable

# 16. Other Information

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References

- GHS Classification European chemical agency, http://echa.europa.eu/

- US NLM U.S. National Library of Medicine, http://chem.sis.nlm.nih.gov/chemidplus/

- HSDB US Hazardous Substances Data Bank, http://toxnet.nlm.nih.gov/

CCRIS US Chemical Carcinogenesis Research Information System,
 International Agency for Research on Cancer,
 Japan National Institute of Technology and Evaluation,
 http://toxnet.nlm.nih.gov/
 http://monographs.iarc.fr/
 http://www.safe.nite.go.jp/

## **\* Hazards Testing and Classification**

**Korea MSDS Testing Laboratory** 

 Website
 www.msdskorea.com

 Telephone
 +82 31 337 3701 / 3702

Address #12, Iwon-ro, Idong-eup, Cheoin-gu, Yongin-city, Gyeonggi-do, 17128,

Rep. of Korea

This SDS' composition/information on ingredient(s) and recommended use are provided by the mentioned Company in this SDS' section 1.

This SDS is composed in line with Korea Occupational Safety and Health Act (KOSHA)

Article 41, to protect the health of the employees, and for documentation.

This SDS is composed with reference to criteria provided by KOSHA.

