

# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product number** : DFH-500  
**Product name** : HiSense™ HotTaq PCR Polymerase  
Recommended use of the chemical and restrictions on use  
**Recommended use** : For R&D use only. Not for use in pharmaceuticals, household, or other purposes.  
Manufacturer or supplier's details  
**Company** : CellSafe Co., Ltd.  
**Responsible Department** : #911, AceDongbaekTower 1dong, 16-4, Dongbaekjungang-ro 16beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 17015 Republic of Korea  
**E-mail address** : customer@cells-safe.com  
**Emergency telephone number** : +82-31-285-9958

## 2. HAZARDS IDENTIFICATION

GHS Classification  
**Hazard pictograms** : None  
**Signal word** : None  
**Hazard statements** : Not Applicable  
**Precautionary statements** : Not Applicable  
**Other hazards** : Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Component</b>	Glycerol	<b>EC-No</b>	200-289-5
<b>CAS-No</b>	56-81-5	<b>Weight %</b>	40-70

The product contains no substances which at their given concentration, are considered to be hazardous to health.

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## 4. FIRST AID MEASURES

<b>In case of eye contact</b>	: Rinse cautiously with plenty water for at least 10 minutes and call a physician.
<b>In case of skin contact</b>	: Immediately remove contaminated clothing and shoes, wash thoroughly with soap and plenty of water. Consult a physician.
<b>If inhaled</b>	: Move to fresh air. Consult a physician if necessary.
<b>If swallowed</b>	: If accidentally swallowed obtain immediate medical attention. Do not induce vomiting wash out mouth with water.
<b>Notes to physician</b>	: No information available

## 5. FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	: Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	: No information available
<b>Specific hazards during firefighting</b>	: Not known
<b>Protective equipment and precautions for firefighters</b>	: Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

### Environmental precautions

: Do not allow uncontrolled discharge of product into the environment.

### Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

: Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

: Keep in a dry, Cool and well-ventilated place. Keep in properly labeled containers.

**Storage condition** : Room temperature

**Specific end use(s)** : For research use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure limits** : Contains no substances with occupational exposure limit values.

#### **Glycerol**

ACGIH TLV (TWA) : Not established

ACGIH TLV (STEL) : Not established

Korea OEL (TWA) : 10mg/m<sup>3</sup>

Korea OEL (STEL) : Not established

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

### Exposure controls

**Respiratory protection** : In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** : Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** : Tight sealing safety goggles

**Skin and Body protection** : Wear suitable protective clothing.

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Odor	: No data available
pH	: 7-8
Melting point/range	: No data available
Boiling point/range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure/density	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Other information	: No information available

## 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
possibility of hazardous reactions	: Hazardous reaction has not been reported.
Conditions to avoid	: No data available
Incompatible materials	: No data available
Hazardous decomposition products	: No data available

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

: There is no evidence available indicating acute toxicity

### Principal Routes of Exposure

#### Acute toxicity

Oral LD50	: 27,000 mg/kg Rat
Dermal LD50	: 45 ml/kg Guinea pig
Inhalation LC50	: >2.75 mg/L 4hr Rat

**Skin corrosion/irritation** : No data available

**Serious eye damage/irritation** : No data available

**Respiratory** : No data available

**or skin sensitization**

**Specific target organ toxicity (STOT)–single exposure** : No data available

**STOT–repeated exposure** : No data available

**Carcinogenicity** : No data available

**Germ cell mutagenicity** : No data available

**Reproductive toxicity** : No data available

**Aspiration hazard** : No data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : No data available

**Mobility in soil** : No data available

**Persistence and degradability** : No data available

**Bioaccumulative potential** : No data available

**Other adverse effects** : No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

**Waste from residues** : Dispose of contents/container in accordance with local regulation.

**Contaminated packaging** : Empty containers should be taken to an approved waste handling site

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for recycling or disposal.

## Disposal precautions

: Dispose of contents and container according to wastes control act

## 14. TRANSPORT INFORMATION

### IATA / ADR / IMDG

: Not dangerous goods.

**UN number** : Not Applicable

**UN proper shipping name** : Not Applicable

**Transport hazard class(es)** : Not Applicable

**Packing group** : Not Applicable

**Environmental hazards** : Not Applicable

**Special precautions for user** : Not classified as dangerous in the meaning of transport regulations.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not Applicable

## 15. REGULATORY INFORMATION

### Regulations under the Occupational Safety and Health Act

**Harmful Agents to be kept below Occupational Exposure Limits**

: Applicable, refer to section 8.

### Regulation under the Chemicals Control Act

: Not applicable

### Dangerous Substances Safety Management Act

: Not Applicable to Dangerous Materials

### Wastes Control Act

: Industrial general wastes. Follow article 13 of the act to dispose the product waste.

### Other requirements in domestic and other countries

: Not applicable

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## 16. OTHER INFORMATION

### Further information

**Material source** Korea Occupational Safety and Health Agency, Korea Information System for Chemical Management

### Revision number and date

**Number of Revision** : 2

**Revision Date** : Feb. 1. 2024

### ETC

: We have endeavored to compose the content of this safety data sheet as accurately as possible. Please be aware that this document is provided solely for reference purposes. The information in this document is based on current knowledge and may be applicable to the implementation of appropriate safety precautions for the product. However, we do not provide any warranty regarding the product's characteristics. It is important to note that this product is not intended for use as a drug, in households, or for any other purposes.