

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product number	: DFT-500, DFT-1000
Product name	: HiSense™ Taq PCR Polymerase
<u>Recommended use of the chemical and restrictions on use</u>	
Recommended use	: For R&D use only. Not for use in pharmaceuticals, household, or other purposes.
<u>Manufacturer or supplier's details</u>	
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

Component	Glycerol	EC-No	200-289-5
CAS-No	56-81-5	Weight %	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

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Unsuitable extinguishing media	: No information available
Specific hazards during firefighting	: Not known
Protective equipment and precautions for firefighters	: 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/m³

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 : No data available

(STOT)–single exposure

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

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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.