

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product number	: QVPD
Product name	: Quantitative VSVG Plasmid DNA (100,000copies/ μ l)
<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

<u>GHS Classification</u>	
Hazard pictograms	: None
Signal word	: None
Hazard statements	: Not Applicable
Precautionary statements	: Not Applicable
Other hazards	: Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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.

Material Safety Data Sheet

If swallowed : Do not induce vomiting wash out mouth with water. Call a physician.
Notes to physician : No information available

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media : No information available

Specific hazards during : Not known

firefighting

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.

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 : -20°C

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

Material Safety Data Sheet

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Odor : No data available

pH : 6-8

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: : No data available

Material Safety Data Sheet

n-octanol/water

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

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

: There is no evidence available indicating acute toxicity

Principal Routes of Exposure

Acute toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/irritation	: No data available
Respiratory or skin sensitization	: No data available
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

Material Safety Data Sheet

12. ECOLOGICAL INFORMATION

Ecotoxicity

: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

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 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

Material Safety Data Sheet

15. REGULATORY INFORMATION

Regulations under the Occupational Safety and Health Act : Not Applicable

Regulation under the Chemicals Control Act : Not Applicable

Dangerous Substances Safety Management Act : Not Applicable

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

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.