

## MATERIAL SAFETY DATA SHEET

Details of the supplier of the safety data sheet :		
Company	: Nanohelix Co., Ltd.	
Address	: A-dong and B-dong, 43-15, Techno 5-ro, Yuseong-gu, Daejeon 34014 Republic of Korea	
Telephone Number	: +82-42-867-9055	
Fax Number	: +82-42-867-9057	
https://www.nanohelix.	net	
Information department	:	
Quality control, Nanoh	elix Co., Ltd.	
E-mail	: info@nanohelix.net	
Product Name	: qPCR Lyo-Cake [Probe]	
U.N.Number	: None allocated	
Dangerous Goods Class	: None allocated	
and Subsidiary Risk		
Hazchem Code	: None allocated	
Poison Schedule	: None allocated	
Use	: Laboratory chemicals	

GHS Classification	: Not a hazardous substance or mixture.	
GHS Label element	: Not a hazardous substance or mixture.	
Other hazards	: None known.	

3 COMPOSITION/INFORMATION ON INGREDIENTS	
Substance / Mixture	: Mixture
Description	: The product is a mixture of the non hazardous substances. The exact concentration percentages of the non hazardous substances may be withheld as a Nanohelix Co., Ltd. trade secret.

4 FIRST-AID MEASURES	
General advice	: Show this material safety data sheet to the doctor in attendance.
lf inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	: Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	: If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: No information available.
Notes to physician	: No information available.

5 FIRE FIGHTING MEASURES	
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	: Exposure to decomposition products may be a hazard to health.



Hazardous combustion products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons
-	(smoke). Carbon oxides Nitrogen oxides (NOx).
Specific extinguishing methods	: In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for	: Wear self-contained breathing apparatus for firefighting if
fire-fighters	necessary.

## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	: Use personal protective equipment. Avoid breathing dust/ fume/
equipment and emergency	gas/ mist/ vapors/ spray.
procedures	
Methods and material for	: Keep in suitable, closed containers for disposal.
containment and cleaning up	

7 HANDLING AND STORAGE		
Advice on protection against fire	: Normal measures for preventive fire protection.	
and explosion		
Advice on safe handling	: For personal protection see section 8. Smoking, eating and	
	drinking should be prohibited in the application area. Dispose of	
	rinse water in accordance with local and national regulations.	
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place.	

8 EXPOSURE CONTROLS	PERSONAL PROTECTION
Ingredients with workplace con parameters	ntrol: Contains no substances with occupational exposure limit values.
Personal protective equipment	
Hand protection Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	: Safety glasses
Sk in and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.
Hygiene measures	: Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMIC	ALPROPERTIES
Appearance	: Solid (Lyophilized)
Color	: No data available.
Odor	: Characteristic
Odor Threshold	: No data available.
рH	: No data available.
Melting point/range	: No data available.
Boiling point/boiling range	: >40°C
Flash Point	: >101°C (Closed-cup)
Evaporation rate	: No data available.
Burning rate	: No data available.
Upper explosion limit	: No data available.
Lower explosion limit	: No data available.
Vapor pressure	: No data available.



No data available.
No data available.
No data available.
No data available.
No data available.
No data available.
Not determined.
No data available.
No data available.

10 STABILITY AND REACTIVITY		
Reactivity	: No decomposition if stored and applied as directed.	
Chemical stability	: No decomposition if stored and applied as directed.	
Possibility of hazardous	: Stable under recommended storage conditions.	
reactions		
Conditions to avoid	: No data available.	
Incompatible materials	: No data available.	
Hazardous decomposition	: No decomposition if stored and applied as directed.	
products		

11 TOXICOLOGICAL INFORMATION	
Acute toxicity	: Not classified based on available information.
<u>Product</u>	
Acute oral toxicity	: No data available.
Acute inhalation toxicity	: No data available.
Acute dermal toxicity	: No data available.
Skin corrosion/irritation	: Not classified based on available information.
Serious eye damage/eye irritation	: Not classified based on available information.
Respiratory or skin sensitization	: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.
Carcinogenicity	: Not classified based on available information.
IARC	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	: Not classified based on available information.
STOT-single exposure	: Not classified based on available information.
STOT-repeated exposure	: Not classified based on available information.
Aspiration toxicity	: Not classified based on available information.
Further information	: No data available.



12 ECOLOGICAL INFORMATION	
o data available.	
egulation - 40 CFR Protection of Environment; Part 82 rotection of Stratospheric Ozone - CAA Section 602 Class I ubstances emarks - This product neither contains, nor was manufactured ith a Class I or Class II ODS as defined by the U.S. Clean Air ct Section 602 (40 CFR 82, Subpt. A, App.A + B).	
o data available.	
ispose of contents/container in accordance with local equiation.	
ispose of as unused product. Do not re-use empty containers.	
ot regulated as a dangerous good.	
ot regulated as a dangerous good.	
ot regulated as a dangerous good.	
o data available.	
ot regulated as a dangerous good.	

15 REGULATORY INFORM	ΙΑΤΙΟΝ	
EPCRA - Emergency Planning and Community Right-to-Know		
SARA 304	: This material does not contain any components with a section 304 EHS RQ.	
SARA 311/312 Hazards	: No SARA Hazards.	
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
US State Regulations		
California Prop. 65	: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.	
TSCA list		
No substances are subject to a	Significant New Use Rule.	
No substances are subject to T	SCA 12(b) export notification requirements.	



## **16 OTHER INFORMATION**

- a. List of references
- b. Issuing date : Jan. 17, 2023
- c. Version : 0
- d. Revision Date
- e. Further information

The data provided in this Material Safety Data Sheet is based on current experience and knowledge. The purpose of this Material Safety Data Sheet is to describe products in terms of their safety requirements. This data given is designed only as a guidance for safe handling, use, storage, transportation, disposal and is not to be considered quality specification or warranty. The above details do not imply any guarantee concerning composition or performance of this product.