

# MATERIAL SAFETY DATA SHEET

### 1 IDENTIFICATION

Details of the supplier of the safety data sheet :

: Nanohelix Co., Ltd. Company

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

http://www.nanohelix.net Information department :

Quality control, Nanohelix Co., Ltd.

: info@nanohelix.net F-mail Product Name : 10x Power-Pfu Buffer U.N.Number : None allocated Dangerous Goods Class : None allocated

and Subsidiary Risk

Hazchem Code : None allocated Poison Schedule : None allocated Use : Laboratory chemicals

#### 2 HAZARDS IDENTIFICATION

GHS Classification : Not a hazardous substance or mixture. GHS Label element : Not a hazardous substance or mixture.

Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

Carcinogenicitiy

**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.

**ACGIH** : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

**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.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Description : The product is a mixture of the hazardous substances listed

below along with unlisted nonhazardous substances. The exact concentration percentages of the 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.

If inhaled : Move to fresh air. If symptoms persist, call a physician.

: Wash off immediately with soap and plenty of water while In case of skin contact removing all contaminated clothes and shoes. If symptoms

persist, call a physician.





: Remove contact lenses. Protect unharmed eye. Rinse thoroughly In case of eye contact

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 : No hazardous combustion products are known.

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

equipment and emergency

procedures

Personal precautions, protective : Use personal protective equipment. Avoid breathing dust/ fume/

gas/ mist/ vapors/ spray.

Methods and material for

containment and cleaning up

: Keep in suitable, closed containers for disposal.

### 7 HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Materials to avoid : Do not store near acids.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control: Contains no substances with occupational exposure limit values. parameters

Personal protective equipment

: The choice of an appropriate glove does not only depend on its Hand protection Remarks

> 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

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

: Keep away from food and drink. When using do not eat, drink or Hygiene measures

smoke.





## 9 PHYSICAL AND CHEMICAL PROPERTIES

: Liquid **Appearance** 

Color : No data available. : Characteristic Odor **Odor Threshold** : No data available. Нα : No data available. : No data available. Melting point/range

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. : No data available. Vapor pressure Relative vapor density : No data available. Relative density : No data available. : No data available. Density

Solubility(ies)

Water solubility : No data available. : No data available. Solubility in other solvents Partition coefficient: : No data available.

n-octanol/water

Autoignition temperature : Not determined. Decomposition temperature : No data available. **Viscosity** : No data available.

Viscosity, dynamic

Viscosity, kinematic : No data available. Explosive properties : No data available. Oxidizing properties : 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 Hazardous decomposition products formed under fire conditions.

Conditions to avoid : No data available. : No data available. Incompatible materials

Hazardous decomposition : No decomposition if stored and applied as directed.

products

### 11 TOXICOLOGICAL INFORMATION

Probable exposure paths : No Information.

Acute toxicity

Oral : No Information. : No Information. Skin Inhalation : No Information. Skin Corrosion or Irritation : No Information. Severe Eye Damage or : No Information.

Irritation

Respiratory Hypersensitivity : No Information. Skin Hypersensitivity : No Information. Carcinogenic Properties : No Information.



Industrial Safety Regulation : No Information. Department of Labor Notice : No Information. IARC : No Information. **OSHA** : No Information. **ACGIH** : No Information. NTP : No Information. **EU CLP** : No Information. Reproductive Cell Mutation : No Information.

**Properties** 

: No Information. Reproductive Toxicity Target Organ Toxicity (Single : No Information.

Exposure)

Target Organ Toxicity (Repeat: No Information.

Exposure)

Inhalation Toxicity : No Information.

#### **ECOLOGICAL INFORMATION** 12

## **Toxicity**

Toxicity to fish : No data available. Toxicity to algae : No data available. : No data available. Toxicity to bacteria

Persistence and degradability

Persistence and degradability : No data available.

Bioaccumulative potential

Bioaccumulation : No data available. Partition coefficient: : No data available.

n-octanol/water

: No data available. Mobility in soil Other adverse effects : No data available.

## 13 DISPOSAL CONSIDERATION

## Disposal methods

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

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

handling site for recycling or disposal.

### 14 TRANSPORT INFORMATION

**UNRTDG** : Not regulated as a dangerous good. IATA-DGR : Not regulated as a dangerous good. IMDG-Code : Not regulated as a dangerous good.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code Domestic regulation

> 49 CFR : Not regulated as a dangerous good.

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

: No data available.

regulations.





### 15 REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards.

EPCRA - Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous: This material does not contain any components with a section

Substances Reportable

Quantity

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.

### **16 OTHER INFORMTION**

a. List of references

**b. Issuing date**: Nov. 29, 2018

c. Version: 1

d. Revision Date: Nov. 29, 2022

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.