

MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION	and the second secon	
Details of the supplier of		
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	
http://www.nanohelix.ne		
Information department :		
Quality control, Nanohe		
E-mail Product Name	: info@nanohelix.net	
U.N.Number	: Rehydration Buffer	
	: None allocated : None allocated	
Dangerous Goods Class	. None anotaleu	
and Subsidiary Risk	News allocated	
Hazchem Code Poison Schedule	: None allocated	
Use	: None allocated	
USe	: Laboratory chemicals	
2 HAZARDS IDENTIF		
GHS Classification	: Not a hazardous substance or mixture.	
GHS Label element	: Not a hazardous substance or mixture.	
Other hazards	: None known.	
	FORMATION 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 MEASU		
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	
	is nowing an containing control and shoes. If symptoms	

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.

persist, call a physician.

unconscious person.

: No information available.

: No information available.

physician.

: Remove contact lenses. Protect unharmed eye. Rinse thoroughly

with plenty of water for at least 15 minutes and consult a

: If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an

In case of eye contact

Most important symptoms and

effects, both acute and delayed

If swallowed

Notes to physician



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 fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: 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 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	t
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	: Liquid
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℃ (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 reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available.
Incompatible materials	: No data available.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11 TOXICOLOGICAL INFOR	ΜΑΤΙΟΝ
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.



ECOLOGICAL INFORMATION

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Ecotoxicity	
<u>Product</u>	
Toxicity to fish	: No data available.
Toxicity to algae	: No data available.
Toxicity to microorganisms	: No data available.
Persistence and degradability	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	
<u>Product</u>	
Ozone-Depletion Potential	: Regulation - 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks - This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	: No data available.
13 DISPOSAL CONSIDERAT	ION
Disposal methods	
Waste from residues	: Dispose of contents/container in accordance with local
Contaminated packaging	regulation. : Dispose of as unused product. Do not re-use empty containers.
14 TRANSPORT INFORMATI	
UNRTDG	: Not regulated as a dangerous good.
IATA-DGR IMDG-Code	: Not regulated as a dangerous good. : Not regulated as a dangerous good.
Transport in bulk according to	: No data available.
Annex II of MARPOL 73/78 and	
the IBC Code	
Domestic regulation 49 CFR	: Not regulated as a dangerous good.

: Not regulated as a dangerous good.

15 REGULATORY INFORMATION		
EPCRA - Emergency Plannir	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	a Significant New Use Rule.	

No substances are subject to TSCA 12(b) export notification requirements.



16 OTHER INFORMATION

- a. List of references
- b. Issuing date : Jul. 12, 2022
- c. Version : 1
- d. Revision Date : Apr. 20, 2023
- 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.