

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
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https://www.nanohelix.n	et de la constant de
Information department :	
Quality control, Nanohe	lix Co., Ltd.
E-mail	: info@nanohelix.net
Product Name	: QRT 2x Buffer Mix [Green]
U.N.Number	: None allocated
Dangerous Goods Class and Subsidiary Risk	: None allocated
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.
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	: Exposure to decomposition products may be a hazard to health.



fighting	
Hazardous combustion products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons
	(smoke). Carbon oxides Nitrogen oxides (NOx).
Further information	: 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	
	: 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 control : Contains no substances with occupational exposure limit values.parametersPersonal protective equipmentHand 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
: 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 CHEMICAL PROPERTIES	
Appearance	: Liquid
Color	: No data available.
Odor	: Characteristic
Odor Threshold	: No data available.
рН	: 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.



Relative vapor density	: No data available.
Relative density	: No data available.
Density	: No data available.
Solubility(ies)	
Water solubility	: No data available.
Solubility in other solvents	: No data available.
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 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 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	: Not classified based on available information.	
irritation		
Respiratory or skin	: Not classified based on available information.	
sensitization		
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		
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	: No data available.	
information		
13 DISPOSAL CONSIDERAT	ION	
Disposal methods		
Waste from residues	: Dispose of contents/container in accordance with local regulation.	
Contaminated packaging	: Dispose of as unused product. Do not re-use empty containers.	

14 TRANSPORT INFORMATION		
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 Annex II of MARPOL 73/78 and the IBC Code	: No data available.	
Domestic regulation 49 CFR	: Not regulated as a dangerous good.	

15 REGULATORY INFORMATION EPCRA - Emergency Planning and Community Right-to-Know		
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 TSCA 12(b) export notification requirements.		



16 OTHER INFORMATION

- a. List of references
- b. Issuing date : Feb. 26, 2019
- c. Version : 1
- d. Revision Date : Apr. 14, 2025
- 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.