## MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION	
Details of the supplier of the	he safety data sheet :
Company	: Nanohelix Co., Ltd.
Address	: 43-15, Techno 5-ro, Yuseong-gu Daejeon 34014, South Korea
Telephone Number	: +82-42-867-9055
Fax Number	: +82-42-867-9057
http://www.nanohelix.net	
Information department :	
Quality control, Nanoheli.	x Co., Ltd.
E-mail	: info@nanohelix.net
Product Name	: DB (WGAD)
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.
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.
If 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	<ul> <li>If accidentally swallowed obtain immediate medical attention.</li> <li>Rinse mouth with water. Never give anything by mouth to an unconscious person.</li> </ul>
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 equipment and emergency	: Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
procedures	
Environmental precautions	: Prevent further leakage or spillage if safe to do so.
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	: Avoid contact with skin and eyes. 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 Materials to avoid	: Keep container tightly closed in a dry and well-ventilated place. : Do not store near acids.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSORE CONTROLS/LEASONALT ROTECTION		
Ingredients with workplace co parameters	<b>ontrol</b> : Contains no substances with occupational exposure limit values.	
Personal protective equipmen	nt statistica de la constatistica de la constatistica de la constatistica de la constatistica de la constatisti	
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	
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.	
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.
pН	: 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.
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	
Viscosity, dynamic	: No data available.
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	
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.	
<u>Product</u>	: May cause skin irritation and/or dermatitis.	
Serious eye damage/eye	: Not classified based on available information.	
irritation		
<u>Product</u>	<ul> <li>Remarks - The product causes irritation of eyes, skin and mucous membranes.</li> </ul>	
Respiratory or skin	: Skin sensitization: Not classified based on available	
sensitization	information. Respiratory 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	
Ecotoxicity	
<u>Product</u>	
Toxicity to fish	: No data available.
Toxicity to algae	: No data available.
Toxicity to bacteria	: No data available.
Persistence and degradability	: No data available.
Bioaccumulative potential	
<u>Product</u>	: Bioaccumulation – 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 CONSIDERATION	
Disposal methods	
Waste from residues	: Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	: Dispose of as unused product. Do not re-use empty containers.

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 Domestic regulation		
49 CFR	: Not regulated as a dangerous good.	

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 TSCA 12(b) export notification requirements.

## 16 OTHER INFORMTION

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.