

SAFETY DATA SHEET

According to Regulation (EU) No. 2020/878

App-D Make DNB Buffer

Version
1.0

Revision Date:
2024/04/15

Date of last issue: 2024/04/15
Date of first issue: 2024/04/15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: App-D Make DNB Buffer

Product number: 530-004706-00

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions: For research use only.

1.3 Details of the supplier of the safety data sheet

Company	Wuhan MGI Tech Co.,Ltd
Address	Building 24, Stage 3.1, BioLake Accelerator No.388 2nd Gaoxin Road, East Lake High-Tech Development Zone 430075 Wuhan P.R. China.
Zip code	430075
Web	en.mgitech.cn
E-mail	MGI-service@genomics.cn
TEL.	+86 4000-966-988

1.4 Emergency telephone number

+86 4000-966-988

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms: No

Signal Word: No

Hazard statements No

Precautionary statements

Prevention

No CLP prevention statements

Response

P332+313 IF SKIN IRRITATION OCCURS: Get medical advice or attention.

Storage

No CLP storage statements

Disposal

No CLP disposal statements

2.3 Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

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SECTION 3: Composition/information on ingredients

ingredient	CAS-No.	EC No.	Concentration (% w/w)	Classification
Water	7732-18-5	686-299-4	95%~98%	Not- Classified
Tris-HCl, pH 7.5	1185-53-1	214-684-5	1%~3%	Not- Classified
Magnesium Chloride	7786-30-3	232-094-6	<0.5%	Not- Classified
Ammonium Sulfate	7783-20-2	231-984-1	<0.5%	Not- Classified

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice :	<p>Leave this dangerous place</p> <p>Contact a doctor</p> <p>Present this SDS to the doctor present</p> <p>Don't let the victim be left unattended</p>
If inhaled :	<p>Call your doctor immediately or call the National Emergency Advice for Hazardous Chemicals.</p> <p>Transfer to fresh air.</p> <p>If you are unconscious ,place it in a recovery position and seek medical advice.</p>
In case of skin contact :	<p>If skin or hair contact occurs remove contaminated clothing and wash skin and hair with tap water.</p> <p>Seek medical advice if there is swelling, redness, blisters or irritation.</p> <p>Seek medical attention promptly</p>
In case of eye contact :	<p>If you come into contact with your eyes, rinse your eyes with plenty of water and seek medical advice.</p> <p>Continue to flush your eyes while transporting to the hospital.</p> <p>Remove the contact lens.</p> <p>Protect the eyes without injuries.</p> <p>Keep your eyes wide when you rinse.</p> <p>If you still have eye irritation, consult a specialist.</p> <p>Keep the airway open.</p>
If swallowed :	<p>Do not induce vomiting.</p> <p>Do not give milk or alcoholic beverages.</p> <p>Never feed anything that is unconscious to your mouth..</p> <p>The victim was taken to the hospital immediately.</p> <p>Rinse with water.</p>

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of discomfort seek medical attention.

In case of skin contact: Wash off with soap and plenty of water for at least 15 minutes. In case of discomfort seek medical attention.

In case of eye contact: Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after

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the initial 1-2 minutes and continue flushing. In case of discomfort seek medical attention.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. In case of discomfort seek medical attention.

4.3 Indication of any immediate medical attention and special treatment needed

NO DATA.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguish with water mist, alcohol-resistant foam, dry powder or carbon dioxide

Unsuitable extinguishing media

NO DATA

5.2 Special hazards arising from the substance or mixture

NO DATA.

5.3 Advice for firefighters

Special protective equipment for firefighters :

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :

Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions :

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If there is pollution in the sewer or waterway, please report to the local authorities.

6.3 Methods and material for containment and cleaning up

a lot of leaks:

Use an inert absorbent material such as sand or soil to absorb spillage.
Collect spilled product and place it in a sealable container or bucket for disposal.
Clean contaminated areas and objects with plenty of water and detergent.

Small amount of leakage:

Absorbing materials such as sand or soil absorb spillage.
Collect spilled product and place it in a sealable container for disposal.
Clean contaminated areas and objects with water and detergent

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid the formation of aerosols.
- Do not breathe steam/dust.
- Avoid contact - get special instructions before use.
- Avoid contact with skin and eyes.
- See section 8 for personal protection.
- Smoking, eating and drinking areas should be prohibited during use.
- Take precautions to prevent electrostatic discharge.
- Provide adequate air exchange and/or exhaust in the workroom.
- Dispose of rinse water in accordance with local and national regulations.
- To prevent leakage or spillage, provide a suitable liquid retention system.

7.2 Conditions for safe storage, including any incompatibilities

- Keep containers in a dry, cool and well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces.
- Store away from incompatible materials and foodstuff containers.
- Storage temperature generally should be $-25^{\circ}\text{C} \sim 15^{\circ}\text{C}$, relative humidity generally should not be higher than 80%.

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SECTION 8: Exposure controls/personal protection

8.1 Occupational Exposure Limits

This product has no specified occupational exposure limits for components.

8.2 Biological occupational exposure limits

This product has no specified occupational exposure limits for components.

8.3 Engineering measures

Use only in well ventilated areas.
Keep the container closed when not in use.

8.4 Personal protective equipment

Respiratory protection:	In the case of vapour formation use a respirator with an ap-proved filter.
Eye protection:	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection:	Impervious clothing Choose body protection according to the amount and con-centration of the dangerous substance at the work place.
Hand protection:	Protective gloves Use specific protective gloves for specific locations.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance and shape:	Colorless transparent liquid
odor:	odorless
pH value:	No data
Melting point / freezing point:	No data
Boiling point:	No data
Flash point:	No data
Upper explosion limit:	No data
Lower explosion limit:	No data
Vapor Pressure:	No data
Vapor density	No data
density	>1
Solubility	Soluble in water
N-octanol/water partition coefficient	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

Other information-None data.

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SECTION 10: Stability and reactivity

10.1 Stability

Stable under the recommended storage conditions.

10.2 Possibility of hazardous reactions

No hazardous reactions when stored and handled within normal conditions of use.

10.3. Conditions to avoid

Avoid extremes of temperature and direct sunlight.

Avoid contact with incompatible
materials.

10.4 Incompatible materials

Oxidising agents and alkalis.

10.5 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes

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SECTION 11: Toxicological information

11.1 Acute toxicity

For Tris HCl

Oral LD50(rats): > 5 000 mg/kg bw
Dermal LD50(rabbit): > 5 000 mg/kg bw

For Magnesium chloride:

Oral LD50(rats): >5000 mg/kg bw
Dermal LD50(rabbit): >2000 mL/kg bw

For Ammonium Sulfate:

Oral LD50(rats): 4 250 mg/kg bw
Dermal LD50(rabbit): > 2 000 mg/kg bw
Inhalation LC50 (rat) 3.5 mg/m³ air/4h

11.2 Skin corrosion/irritation

Based on available data, the classification criteria are not met

11.3 Serious eye damage/eye irritation

Based on available data, the classification criteria are not met

11.4 Respiratory or skin allergies

Based on available data, the classification criteria are not met

11.5 Germ cell mutagenicity

Based on available data, the classification criteria are not met

11.6 Carcinogenicity

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.

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11.7 Reproductive toxicity

Based on available data, the classification criteria are not met

11.8 Specific target organ toxicity (one exposure)

Based on available data, the classification criteria are not met

11.9 Specific target organ system toxicity (repeated exposure)

Based on available data, the classification criteria are not met

11.10 Aspiration hazard

Based on available data, the classification criteria are not met

11.11 Additional information

No data.

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SECTION 12: Ecological information

12.1 Ecotoxicity

For Tris HCl

LC50 for freshwater fish:	460 mg/L
EC50/LC50 for freshwater invertebrates:	117 mg/L
EC50 for microorganisms:	1000 mg/L
EC10 or NOEC for microorganisms:	1000 mg/L

For Magnesium chloride:

Fish LC50 :	2119.5 mg/L/96h
Aquatic Invertebrates EC50/LC50 :	548.4 mg/L/48h
aquatic algae and cyanobacteria EC50:	100 mg/L/72h

For Ammonium Sulfate:

Fish LC50(96h):	53 mg/L
Aquatic invertebrates EC50(48h):	169 mg/L
Algae and cyanobacteria EC50(5d):	1600 mg/L

12.2 Persistence and degradability

No data available

12.3 Potential bioaccumulation

No data available

12.4 Soil migration

No data available

12.5 Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Water	7732-18-5	not PBT/vPvB
Tris-HCl, pH 7.5	1185-53-1	not PBT/vPvB

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Magnesium Chloride	7786-30-3	not PBT/vPvB
Ammonium Sulfate	7783-20-2	not PBT/vPvB

12.6 Other environmental harmful effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-cal or used container.

Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14: Transport information

Label and Mark

Transporting Label	No
Marine pollutant	None

IMDG-CODE

UN number	No
UN proper shipping name	Not Restricted
Transport hazard class	No
Transport subsidiary hazard class	None
Packing group	No

ICAO/IATA-DGR

UN number	No
UN proper shipping name	Not Restricted
Transport hazard class	No
Transport subsidiary hazard class	None
Packing group	No

UN-ADR

UN number	No
UN proper shipping name	Not Restricted
Transport hazard class	No
Transport subsidiary hazard class	None
Packing group	No

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<i>Regulation (EU) No. 2020/878:</i>
<i>Regulation (EC) No. 1907/2006:</i>
<i>Guidance on the compilation of SDS 2015.11</i>
<i>EU regulation No. 2015/830</i>

15.2 Other regulations

Please note that waste disposal should also comply with local regulations.

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SECTION 16: Other information

16.1 Abbreviations and acronyms

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
 ENCS - Japanese Existing and New Chemical Substances
 IECSC - Chinese Inventory of Existing Chemical Substances
 KECL - Korea Existing Chemicals List
 PICCS - The Philippine Inventory of Chemicals and Chemical Substances
 AICS - The Australian Inventory of Chemical Substances
 LD50 - Median lethal dose i.e. Lethal Dose, 50%
 LC50 - Lethal concentration 50%
 UNRTDG - UN Recommendations on the Transport of Dangerous Goods
 IMDG - International Maritime Dangerous Goods
 IATA - The International Air Transport Association (The latest edition).

16.2 Key literature references and sources for data

ECHA: <http://echa.europa.eu/>
 IFA GESTIS:
[http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)
 eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
 HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
 ICSC: <http://www.ilo.org/dyn/icsc/showcard.home>
 NITE-CHIRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

16.3 Full text of H-Statements:

No data.

16.4 Training advice

No data.

16.5 Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SDS.