MEIDIKE GENE

Safety Data Sheet

Disposable Virus Sampling kit

Version：2.0 SDS No. : 20200920001
Creation Date：2020/09/20 Revision Date：2020/09/20

***Prepared according to EU regulation No. 2015/830**

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

| Product identifier

Product Name	Disposable Virus Sampling kit
Product number	MVTM-10A（inactivated including swab）
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-

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

Relevant identified uses	For sample collection, transportation, storage,etc.
Uses advised against	Please consult manufacturer.

| Details of the supplier of the Safety Data Sheet

Name of the company	Shenzhen Medico Technology Co., Ltd.
Address of the company	Building 17,Hengyi Lane,Yuanhu Road,zhangbei Industrial Park,Longcheng Street,longgang district,Shenzhen,Guangdong, China.
Post code	-
Telephone number	+86-775-28997664
Fax number	///
E-mail address	ice.zhu@medicoswab.com

| Emergency phone number

Emergency phone number	+86-15768406143

2 Hazards identification

| CLP classification according to Regulation（EC）No. 1272/2008

Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 2

| Label elements

Hazard pictograms	
Signal word	Warning

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements

◆ Prevention

P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P302+P352	IF ON SKIN: Wash with plenty of water/...
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

◆ Storage

	Not applicable.

◆ Disposal

	Not applicable.

Other hazards

	Not applicable.

3 Component

Component	Cas No.	EC No.	Hazard classification according to CLP	Concentration (ml/100ml) or(g/100ml)
Sucrose	57-50-1	200-334-9	Not Classified	8.0%
Glycerol	56-81-5	200-289-5	Not Classified	6.8%
Guanidine thiocyanate	593-84-0	209-812-1	Acute Toxicity – Oral Category 4 H302 Acute Toxicity - Dermal Category 4 H312 Acute Toxicity – Inhalation Category 4 H332 Skin Corrosion / Irritation Category 1C H314	2.0%

			Serious Eye Damage / Eye Irritation Category 1 H318 Hazardous to the aquatic environment – chronic Category 3 H412	
Sodium citrate	6858-44-2	614-623-6	Not Classified	0.4%
Sodium chloride	7647-14-5	231-598-3	Not Classified	0.4%
Sodium lauroylsarcosinate	137-16-6	205-281-5	Not Classified	0.25%
Glucose	50-99-7	200-075-1	Not Classified	0.05%
water	7732-18-5	231-791-2	Not Classified	82%

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1	There is limited evidence that the substance has no health effects.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Firefighting measures

Extinguishing media

Suitable extinguishing media	This article otherwise, according to the combustion environment may choose the appropriate way of extinguishing.
Unsuitable extinguishing media	Do not use a solid water stream.

Specific hazards arising from the substance or mixture

1	Fire may produce irritating, poisonous or corrosive gases.
2	Not considered a significant fire risk, however containers may burn.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus （MSHA/NIOSH approved or equivalent) and full protective gear.

2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
2	Do not touch or walk through spilled material.
3	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
4	Ensure adequate ventilation. Remove all sources of ignition.
5	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
6	Use personal protective equipment. Avoid breathing vapours, mist or gas.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

1	Not applicable.

◆ Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.
5	Storage temperature generally should be room Temperature, relative humidity generally should not be higher than 80%.

Specific end uses

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.

8 Exposure controls/personal protection

Control parameters

◆ Occupational Exposure limit values

Occupational Exposure limit values	No relevant regulations

◆ Biological limit values

Biological limit values	No relevant regulations

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air（Series standard）.

◆ Derived No effect level(DNEL)

Derived No effect level(DNEL)	No information available

◆ Predicted No Effect Concentration（PNEC）

Predicted No Effect Concentration（PNEC）	No information available

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	Wear protective gloves（such as butyl rubber）, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear chemical-resistant protective clothing and boots.

9 Physical and chemical properties

Physical and chemical properties

Appearance	Transparent colorless liquid
Odor	Odorless
Odor threshold	No information available

pH	No information available
Melting point/freezing point(℃)	No information available
Initial boiling point and boiling range(℃)	No information available
Flash point(Closed cup,℃)	>93
Evaporation rate	Not applicable
Flammability	Not flammable
Upper/lower explosive limits[%(v/v)]	Upper limit：No information available；Lower limit：No information available
Vapor pressure	Not applicable
Vapor density(Air＝1)	Not applicable
Relative density(Water=1)	No information available
Solubility(mg/L)	Miscible with water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(℃)	No information available
Decomposition temperature(℃)	No information available
Viscosity(mm^2/s)	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	Cas No.	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Sucrose	57-50-1	>2000mg/kg(Rat)	>2000mg/kg (Rat)	> 8.5mg/L air (Rat)
Glycerol	56-81-5	12600 mg/kg bw (Rat)	> 10000mg/kg bw (Rat)	>2.75 mg/L (Rat)
Guanidine thiocyanate	593-84-0	593 mg/kg bw (Rat)	>2000mg/kg(Rat)	> 0.853 mg/L air (Rat)
Sodium citrate	6858-44-2	5 400 mg/kg bw (Rat)	>2000mg/kg(Rat)	No information available

Sodium chloride	7647-14-5	3550 mg/kg bw	> 10000 mg/kg bw	> 42 mg/L air
Sodium lauroylsarcosinate	137-16-6	> 5 000 mg/kg bw (Rat)	No information available	> 0.05 - < 0.5 mg/L air (Rat)
Glucose	50-99-7	No information available	No information available	No information available

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	57-50-1	Sucrose	Not Listed	Not Listed
2	56-81-5	Glycerol	Not Listed	Not Listed
3	593-84-0	Guanidine thiocyanate	Not Listed	Not Listed
4	6858-44-2	Sodium citrate	Not Listed	Not Listed
5	7647-14-5	Sodium chloride	Not Listed	Not Listed
6	137-16-6	Sodium lauroylsarcosinate	Not Listed	Not Listed
7	50-99-7	Glucose	Not Listed	Not Listed

Others

Disposable Virus Sampling kit	
Skin corrosion/irritation	Skin corrosion/irritation Category 2
Serious eye damage/irritation	Serious eye damage/irritation Category 2
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Sucrose	57-50-1	LC_{50}: 4200 mg/L (48h) (Fish)	EC_{50}: 1700mg/L (48h) (Crustaceans)	ErC_{50}: 560 mg/L (72h) (Algae)
Glycerol	56-81-5	LC_{50}: 68100 mg/L (48h) (Fish)	EC_{50}: 1535 mg/L (48h) (Crustaceans)	No information available
Guanidine thiocyanate	593-84-0	LC_{50}: 89.1 mg/L (48h) (Fish)	EC_{50}: 42.4 mg/L (48h) (Crustaceans)	ErC_{50}: 130mg/L (72h) (Algae)
Sodium citrate	6858-44-2	LC_{50}: 590 mg/L (48h) (Fish)	EC_{50}: 2 055 mg/L (48h) (Crustaceans)	No information available
Sodium chloride	7647-14-5	LC_{50}: 5840 mg/L	EC_{50}: 1 900 mg/L	ErC_{50}: 2 430 mg/L

		(96h)	(48h)	(120h)
Sodium lauroylsarcosinate	137-16-6	LC_{50}：32.1 mg/L (96h)	EC_{50}：29.7 mg/L (48h)	ErC_{50}：79 mg/L (120h)
Glucose	50-99-7	No information available	No information available	No information available

|Chronic aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Sucrose	57-50-1	NOEC: 181 mg/ L	NOEC:2.9 mg/L	No information available
Glycerol	56-81-5	No information available	No information available	No information available
Guanidine thiocyanate	593-84-0	No information available	No information available	No information available
Sodium citrate	6858-44-2	No information available	No information available	No information available
Sodium chloride	7647-14-5	NOEC ： 252 mg/L	NOEC：314 mg/L	No information available
Sodium lauroylsarcosinate	137-16-6	No information available	No information available	NOEC:9.2 mg/L
Glucose	50-99-7	No information available	No information available	No information available

|Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Sucrose	57-50-1	Low	Low
Glycerol	56-81-5	Low	Low
Guanidine thiocyanate	593-84-0	Low	Low
Sodium citrate	6858-44-2	Low	Low
Sodium chloride	7647-14-5	Low	Low
Sodium lauroylsarcosinate	137-16-6	Low	Low
Glucose	50-99-7	Low	Low

|Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
Sucrose	57-50-1	Low	BCF=3.2
Glycerol	56-81-5	Low	Log Kow=-1.38
Guanidine thiocyanate	593-84-0	Low	Log BCF= 0.5
Sodium citrate	6858-44-2	Low	Log BCF= 0.5
Sodium chloride	7647-14-5	Low	log Kow <=3
Sodium lauroylsarcosinate	137-16-6	Low	-

Glucose	50-99-7	Low	-

| Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (K_{OC})
water	7732-18-5	Low	14.3
Sucrose	57-50-1	Low	-
Glycerol	56-81-5	Low	-
Guanidine thiocyanate	593-84-0	Low	-
Sodium citrate	6858-44-2	Low	-
Sodium chloride	7647-14-5	Low	-
Sodium lauroylsarcosinate	137-16-6	Low	-
Glucose	50-99-7	Low	-

| Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Sucrose	57-50-1	not PBT/vPvB
Glycerol	56-81-5	not PBT/vPvB
Guanidine thiocyanate	593-84-0	not PBT/vPvB
Sodium citrate	6858-44-2	not PBT/vPvB
Sodium chloride	7647-14-5	not PBT/vPvB
Sodium lauroylsarcosinate	137-16-6	not PBT/vPvB
Glucose	50-99-7	not PBT/vPvB

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

| Label and Mark

Transporting Label	None
Marine pollutant	No

| IMDG-CODE

UN number	None

UN proper shipping name	No Restricted
Transport hazard class	None
Transport subsidiary hazard class	None
Packing group	None
Marine pollutant（Yes or no)	No

| ICAO/IATA-DGR

UN number	None
UN proper shipping name	No Restricted
Transport hazard class	None
Transport subsidiary hazard class	None
Packing group	None

| UN-ADR

UN number	None
UN proper shipping name	No Restricted
Transport hazard class	None
Transport subsidiary hazard class	None
Packing group	None

15 Regulatory information

| International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Sucrose	√	√	√	√	√	√	√	√	√
Glycerol	√	√	√	√	√	√	√	√	√
Guanidine thiocyanate	√	√	√	√	×	√	√	√	√
Sodium citrate	√	√	√	√	√	√	√	√	√
Sodium chloride	√	√	√	√	√	√	√	√	√
Sodium lauroylsarcosinate	√	√	√	√	×	√	√	√	√
Glucose	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List
【IECSC】 China Inventory of Existing Chemical Substances
【NZIoC】 New Zealand Inventory of Chemicals
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
【KECI】 Existing and Evaluated Chemical Substances
【AICS】 Australia Inventory of Chemical Substances
【ENCS】 Existing And New Chemical Substances

| European chemical inventory

Component	A	B	C	D	E	F	G
Sucrose	×	×	×	√	×	×	×
Glycerol	×	×	×	√	×	×	×
Guanidine thiocyanate	×	×	×	√	×	×	×
Sodium citrate	×	×	×	√	×	×	×
Sodium chloride	×	×	×	√	×	×	×
Sodium lauroylsarcosinate	×	×	×	√	×	×	×
Glucose	×	×	×	√	×	×	×

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
【B】 Substances requiring authorisation under EU REACH regulation
【C】 Substances restricted under EU REACH
【D】 Pre-registered substances under EU REACH
【E】 Registered substances under EU REACH
【F】 Substance Evaluation – CoRAP under EU REACH
【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

16 Others

Information on revision

Creation Date	2020/09/20
Revision Date	2020/09/20
Reason for revision	-

Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
[2]IARC, website: http://www.iarc.fr/.
[3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5]NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7]U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service
CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL- Short term exposure limit
PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level
IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment
PNEC –Predicted No Effect Concentration
LC_{50} - Lethal Concentration 50%
LD_{50} - Lethal Dose 50%

NOEC -No Observed Effect Concentration

EC_{50} - Effective Concentration 50%

PBT - Persistent, Bioaccumulative, Toxic

POW - Partition coefficient Octanol: Water

BCF - Bioconcentration factor (BCF)

vPvB - very Persistent, very Bioaccumulative

IMDG-International Maritime Dangerous Goods

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

UN-The United Nations

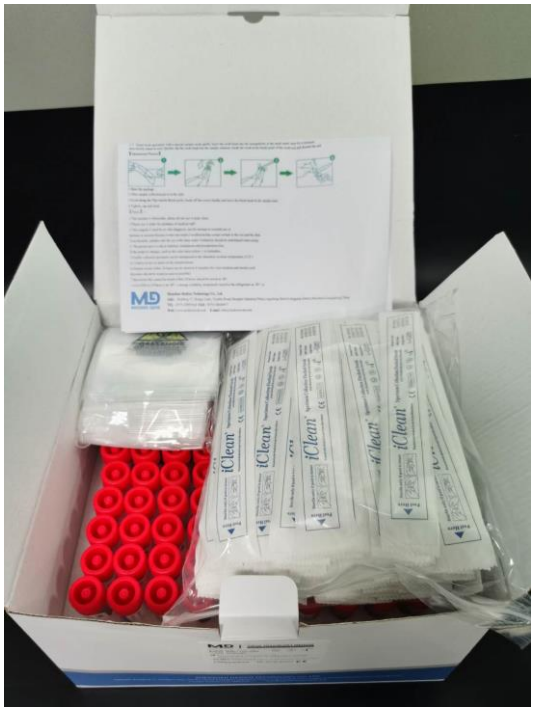
ACGIH-American Conference of Governmental Industrial Hygienists

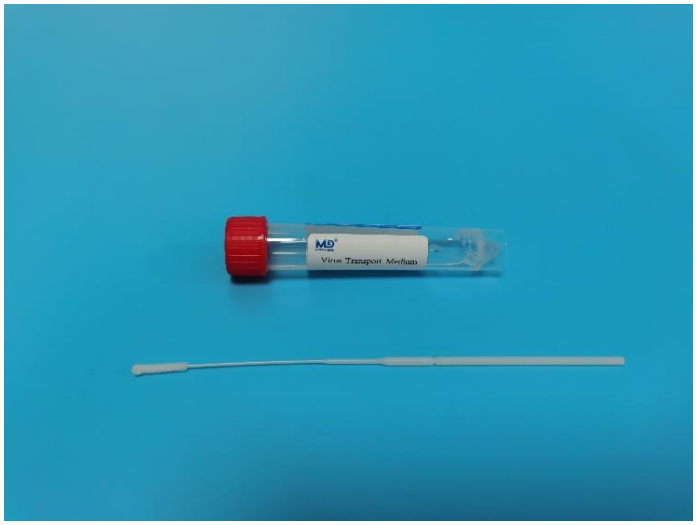
NFPA-National Fire Protection Association

OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user’ s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.





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