

# Material Safety Data Sheet

## Avantik VTM – Viral Transport Medium (VTM)

Version 01

Revision Date 09.18.2020

Date of issue : 06.20.2018

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

#### **1.1 Product identifier**

**Trade name : Avantik VTM**

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

**Use of the substance/Mixture : Culture Media, Non-Propagating Transport.**

#### **1.3 Detail of the supplier of the safety data sheet**

Distributor :

Avantik

19 Chapin Rd - Building C

Pine Brook, NJ 07508

Email: info@avantik-us.com

Manufacturer/supplier :

Han Chang Medic

79-35, Jang San 2-gil, Susin-myeon Dongnam-gu, Cheonahn-si,

Chungcheongnam- do, Republic of Korea

E-mail address of person in charge; hanchangmedic@gmail.com

SDS/Contact Person : OH, SE YOUNG

### **SECTION 2 : Hazard identification**

#### **2.1 Classification of the substance or mixture**

**Classification (Specimen transport and storage container for Medical Device)**

Not a hazardous substance or mixture

According to OSHA & TSCA

#### **2.2 Label elements**

**Labeling (Regulation(EC)No1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### **2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulate(vPvB) at levels of 0.1%, or Higher No special risks known.

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### SECTION 3 : Composition/Information on Ingredients

#### 3.2 Mixtures

Chemical nature : Aqueous solution

Components (1L Per)

Chemical name	CAS-No. Index-No. Registration No,	Concentration
Hank's balanced salt solution		Trade Secret
BSA (Bovine Serum Albumin)	9048-46-8	
L-cysteine	616-91-1	
Gelatin	9000-70-8	
Sucrose	57-50-1	
L-glutamic acid	56-86-0	
HEPES	7365-45-9	
Sodium bicarbonate	144-55-8	
Vancomycin	1404-93-9	
Amphotericin B	1397-89-3	
Colistin	1264-72-8	
Phenol Red	143-74-8	

### SECTION 4 : First aid measures

#### 4.1 Description of first aid measure

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : Do NOT induce vomiting  
 Drink water as a precaution.  
 Consult a physician if it is necessary

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Gastrointestinal discomfort

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available

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### SECTION 5 : Fire fighting measures

Not applicable due to contain non fire or burning materials.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personnel Precautions : No special precautions required.

#### 6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

#### 6.3 Methods and material for containment and clean up

Method of cleaning up : Wipe up with absorbent materials (e.g. cloth..)

#### 6.4 Reference to other sections

See chapter 13

### SECTION 7: Handling and storage

#### 7.1 Precaution for safe handling : not required under normal use

Advice on safe handling : No special protective measures against fire required.

Hygiene measures : Keep away from food and drink. Keep away from children.

#### 7.2 Condition for safe storage, including any incompatibilities

Requirement for storage : Store at room temperature in the original container.

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### GTM – General Transport Medium (GTM) System

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Revision Date 2020. 09. 18

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Further information on storage: Do not freeze, Keep away from direct sunlight.

Recommended storage temperature: 15 ~ 25°C

Advice on common storage: No materials to be especially mentioned

## SECTION 8 : Exposure Controls/Personal protection

### 8.1 Control Parameters

Substance name	End use	Exposure routes	Potential health effects	Value
Sodium Chloride	Workers	Inhalation	Long term systemic effects, Long term local effects	LD50>10.5mg/L 4hr Rat
	Workers	Skin contact	Long Term systemic effects	LD50>10000mg/kg Rabbit
	Consumers	Inhalation	Long term exposure Short term exposure Local effects	LD50>10.5mg/L 4hr Rat
	Consumers	Skin contact	Long term local effects	LD50>10000mg/kg Rabbit
	Consumers	Injection	Long term exposure Short term exposure Local effects	LD50>3000mg Rat

Derived No Effect Level (DNEL) according to Regulation (EC) No.1907/2006:

Substance name	Environment Compartment	Value
Sodium chloride	Fresh water	10mg/L
	marine water	N/A
	Fresh water sediment	7.2 mg/kg
	Marin sediment	0.72mg/kg
	Soil	1.26mg/kg
	Intermittent use/release	3.44mg/L
	Sewage treatment plant	24.5mg/L

Predicted No Effects Concentration according to Regulation (EC) No.1907/2006:

### 8.2 Exposure control

Personal protective equipment

Protective measures : Avoid contact with eyes

## SECTION 9 : Physical and chemical properties

### 9.1 Information on basic physical properties

Appearance : Liquid  
 Color : Pink red  
 Odor : Nearly odorless  
 Odor Threshold : Not determined  
 pH :  $7.3 \pm 0.2$  at 25 °C  
 Melting point/freezing point : 0 °C  
 Decomposition temperature. : Not applicable

Flammability (solid, gas)	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limits	: Not applicable
Vapor pressure	: ca. 25hPa(20 °C) similar to water
Vapor density	: No data available
Relative density.	: ca. 1,005g/cm <sup>3</sup> (20 °C)
Solubility Water solubility	: In all proportions (20 °C)
Partition coefficient (n-octanol/water)	: Not applicable
Auto-ignition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

## 9.2 Other information

No data available

## SECTION 10 : Stabilities and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibilities of hazardous reactions

Hazardous reactions : None reasonable foreseeable

### 10.4 Condition to avoid

Condition to avoid : Do not store at temperature above 30 °C

### 10.5 Incompatible materials

Materials to avoid : Do not mix with other products

### 10.6 Hazardous decomposition products

None reasonably foreseeable.

## SECTION 11 : Toxicological information

### 11.1 Information on toxicological effects

#### Product:

Acute oral toxicity : Not applicable

### **Components :**

#### **Sodium bicarbonate**

Acute oral toxicity : LD50>10,000mg/kg Rabbit  
 Acute inhalation toxicity : LD50>10.5mg/L 4hr Rat  
 Acute dermal toxicity : LD50>10000mg/kg Rabbit

#### **BSA**

Acute oral toxicity : Not applicable  
 Acute inhalation toxicity : Not applicable  
 Acute dermal toxicity : Not applicable

### **11.2 Skin corrosion/irritation**

#### **Product:**

Result : No skin irritation

#### **Components :**

#### **Sodium bicarbonate**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : No skin irritation

#### **BSA**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : No skin irritation

### **11.3 Serious eye damage/eye irritation**

Product :  
 Result : Assessment of eye tolerance in rabbits – slightly irritating  
 Remarks : According to the classification criteria of the EC the product is not considered as an eye irritant.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Product:**

Toxicity to microorganisms : EC50:> 3.200mg/L  
 Method : OECD 209

**Components:****Sodium chloride**

Toxicity to fish : LC50(Leucis idus (Golden orfe)): NA  
Exposure time : 96h  
Toxicity to daphnia and : EC50:>500mg/L  
Other aquatic invertebrates : Exposure time : 48h  
Toxicity to algae : EC50(Desmodesmus subspicatus(green algae))  
500mg/L, Exposure time : 72h  
Toxicity to fish(Chronic toxicity) : NOEC:23mg/L  
Exposure time : 34d  
Species : Pimephales promelas (fathead minnow)  
Toxicity to daphnia and : NOEC: 9.43 mg/L  
Other aquatic invertebrates : Exposure time : 34d  
(Chronic toxicity) Species : Daphnia magna (Water flea)

**BSA**

Toxicity to daphnia and : No data  
Other aquatic invertebrates  
Toxicity to algae : No data  
Toxicity to fish(Chronic toxicity). : No data  
Toxicity to daphnia and : No data  
Other aquatic invertebrates  
(Chronic toxicity)

**12.2 Persistence and degradability****Product:**

Biodegradability : Biodegradation : 90 ~ 100%

Exposure time: 15d

Method: OECD Test Guideline 301A

According to the result of tests of Biodegradability this product is considered as being readily Biodegradable.

Chemical Oxygen Demand : 594 mg/L(COD)

Test substance : 1 % solution.

**Components:****Sodium chloride**

Biodegradability : The methods of determining Biodegradability are not applicable to inorganic substance

### **BSA**

Biodegradability : Biodegradation : 90 ~ 100%

Exposure time: 15d

Method: OECD Test Guideline 301A

According to the result of tests of Biodegradability this product is considered as being readily Biodegradable.

## **12.3 Other adverse effects**

Product:

Additional ecological : none information

## **SECTION 13 : Disposal considerations**

### **13.1 Waste treatment methods**

Product : Dispose of the product according to the defined EWC  
(European Waste Code)

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused : European waste catalogue (EWC) 070601

## **SECTION 14: Transport information**

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precaution for user

Not applicable



## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environment regulation/legislation specific for the substance or mixture**

REACH – Candidate List of Substance of very High : Not applicable

Concern for Authorization (Article 59)

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

**Seveso III : Directive 2012/18/EU of the European Parliament and of the Council on the control of major accident hazards involving dangerous substance.**

**Not applicable.**

Volatile organic compounds : Volatile organic compound(VOC) content: < 3%

Directive 2010/75/EC on the limitation of emission of volatile organic compound.

Not applicable.

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

### **15.2 Chemical safety assessment**

Exempt

## **SECTION 16: Other information**

Full text of H-Statement

H302 : Harmful if swallowed

H315 : Cause skin irritation

H319 : Cause skin irritation

H400 : Very toxic to aquatic life

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term(acute) aquatic hazard

Aquatic Chronic : Long-term(chronic) aquatic hazard  
Eye irritation : Eye irritation  
Skin irritation : Skin irritation

ADN–European Agreement concerning the international Carriage of Dangerous Goods by inland Waterway; ADR-European Agreement concerning the international Carriage of Dangerous goods by Road; AICS-Austrian Inventory of Chemical Substance; ASTM-American Society for the Testing Materials; bw-Body weight; CLP-Classification Labeling Packaging Regulation; Regulation (EC) No 1272/2008; OECD-Organization for Economic Co-operation and Development REACH-Regulation (EC) 1907/2006 of the European parliament and of the Council concerning the Registration. TSCA-Toxic Substances Control Act (U.S.A): UN-United Nations.

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