

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : VIRNA sample collection and transport tube

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

Use of the Substance/Mixture : Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet**Company : Sterilab Services  
18 Mornington Terrace  
Harrogate, North Yorkshire HG1 5DH  
UNITED KINGDOM

Telephone : +44-1423-523300

Responsible Department : Technical Services  
Sterilab Services  
18 Mornington Terrace  
Harrogate, North Yorkshire  
HG1 5DHE-mail address Responsible/issuing person : [info@sterilab.co.uk](mailto:info@sterilab.co.uk)**1.4 Emergency telephone number**CHEMTREC : +1 703-527-3887  
+(44)-870-8200418**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements	: H315 H317 H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	: <b>Prevention:</b> P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Hazardous components which must be listed on the label: maleic acid.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
guanidine hydrochloride	50-01-1 200-002-3	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332	>= 30 - < 50
maleic acid	110-16-7 203-742-5	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335	>= 0.1 - < 1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	: If unconscious place in recovery position and seek medical advice. 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

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- In case of eye contact : Immediately flush eye(s) with plenty of water.  
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.

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

- Symptoms : No information available.
- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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

- Treatment : No information available.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media.

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or  
carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture.

- Specific hazards during firefighting : Exposure to decomposition products may be a hazard to  
health.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)

### 5.3 Advice for firefighters.

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if  
necessary.
- Further information : In the event of fire and/or explosion do not breathe fumes.

## **SECTION 6: Accidental release measures**

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

- Personal precautions : Use personal protective equipment.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up.

Methods for cleaning up : Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
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.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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. Keep working clothes separately.  
Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Personal protective equipment**

- Eye protection : Safety glasses  
Wear face-shield and protective suit for abnormal processing problems.  
Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection  
Material : Protective gloves complying with EN 374.
- 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).
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the workplace.  
Footwear protecting against chemicals

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Color : colorless
- Odor : No data available
- Odor Threshold : No data available
- pH : ca. 6
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Burning rate : No data available

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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 : ca. 1.16 g/cm<sup>3</sup> (ca. 25 °C)

### Solubility(ies)

: soluble  
Water solubility  
Solubility in other solvents : No data available  
Partition coefficient: n-  
octanol/water : No data available  
Auto-ignition temperature : No data available  
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

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

Keep away from oxidizing agents, and acidic or alkaline products.

**10.4 Conditions to avoid**

Conditions to avoid : No data available

**10.5 Incompatible materials**

Materials to avoid : No data available

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 hours  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : No data available

**Components:****guanidine hydrochloride:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

LD50 Oral (Rat): 1,120 mg/kg

**maleic acid:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

LD50 Oral (Rat): 708 mg/kg

Acute inhalation toxicity : (Rat): 0.72 mg/l  
Exposure time: 1 hours

Acute dermal toxicity :

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### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks:  
May cause skin irritation and/or dermatitis.

#### **Components:**

##### **maleic acid:**

Species: Rabbit  
Exposure time: 24 hours  
Result: Mild skin irritation

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

Causes serious eye irritation.

#### **Product:**

Remarks:  
May cause irreversible eye damage.

#### **Components:**

##### **maleic acid:**

Species: Rabbit  
Result: Eye irritation

### **Respiratory or skin sensitization**

Skin sensitization: May cause an allergic skin reaction.  
Respiratory sensitization: Not classified based on available information.

#### **Product:**

Remarks:  
Causes sensitization.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **maleic acid:**

Exposure routes: Inhalation  
Assessment: May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information. Aspiration toxicity  
Not classified based on available information.

**Further information      No data available**



**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish : No data available

Toxicity to algae : No data available

Toxicity to bacteria : No data available

**Components:****maleic acid:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 5 mg/l  
Exposure time: 96 hours

LC0 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 hours

Toxicity to daphnia and other aquatic invertebrates : EC100 (Daphnia magna (Water flea)): 160 mg/l  
Exposure time: 48 hours

EC50 (Daphnia magna (Water flea)): 160 mg/l  
Exposure time: 48 hours

EC100 (Daphnia magna (Water flea)): 200 mg/l  
Exposure time: 24 hours

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 41 mg/l  
Exposure time: 72 hours

**12.2 Persistence and degradability****Components:****guanidine hydrochloride:**

Biodegradability : Method: OECD Test Guideline 301C  
Remarks:  
According to the results of tests of biodegradability this product is not readily biodegradable.

**12.3 Bio accumulative potential****Product:**

Bioaccumulation : No data available

**Components:****guanidine hydrochloride:**

Partition coefficient: n-octanol/water : log Pow: ca. -1.7 (20 °C)

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects****Product:**

Additional ecological information : No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : 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.

**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 precautions for user**

Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code regulations.**

Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

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

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.  
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 substances.  
Not applicable

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16: Other information****Full text of H-Statements**

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization

STOT SE : Specific target organ toxicity - single exposure

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardization; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organization for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vP vB - Very Persistent and Very Bio accumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

#### **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 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.