

Safety Data Sheet

According to 29 CFR 1910.1200(g)

Unyvero T1 Sample Tube

Print date: 30.01.2018

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1. Identification

Product identifier

Unyvero T1 Sample Tube

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Use as laboratory reagent.

Uses advised against

not known

Details of the supplier of the safety data sheet

Company name:	Curetis GmbH		
Street:	Max-Eyth-Str. 42		
Place:	71088 Holzgerlingen, Germany		
Telephone:	+49-(0)7031 – 49195-55	Telefax:	+49-(0)7031 - 4919519
Responsible Department:	Dr. Gans-Eichler	e-mail:	info@tge-consult.de
	Chemieberatung GmbH	Tel.:	+49 (0)251/924520-60
	Raesfeldstr. 22		
	48149 Muenster		

Emergency phone number: Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

Harmful if swallowed or if inhaled

Causes skin irritation

Causes serious eye irritation

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

If contact with skin: Wash with plenty of warm water and soap.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if possible.

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Continue rinsing.
Call a poison center or doctor if discomfort persists.
If eye irritation persists get medical attention.
Dispose of contents and container in accordance with local, regional, national and international regulations.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
50-01-1	Guanidine hydrochloride, guanidinium chloride	45-50 %

4. First-aid measures

Description of first aid measures

General information

In case of accident or illness, seek medical advice immediately. Show this safety data sheet to the doctor in attendance.

After inhalation

In case of accident by inhalation, remove subject to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with warm water and soap. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. In all cases of doubt, or when symptoms persist, seek medical advice.

Most important symptoms and effects, both acute and delayed

This information is not available.

Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water spray. Foam. Carbon dioxide. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the chemical

In case of fire, gases hazardous to health may be released: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Hydrogen chloride (HCl).

Special protective equipment and precautions for fire-fighters

In case of fire or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow contaminated water to enter drains or surface water.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Wear personal protection equipment (See section 8).

Environmental precautions

Do not allow contaminated water to enter into surface water or drains. Inform appropriate managerial or supervisory personnel of all environmental releases.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

General protection and hygiene measures: See section 8.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Recommended storage temperature: 15-25°C
Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with explosives oxidizing solids, oxidizing liquids, radioactive substances, or infectious substances.

Further information on storage conditions

Protect against UV-radiation and sunlight.

8. Exposure controls/personal protection

Control parameters

Exposure controls

Appropriate engineering controls

No special measures are necessary.

Protective and hygiene measures

Keep away from food, drink and animals. Remove contaminated, saturated clothing immediately. Wash hands before and after contact with soap and warm water. Avoid contact with eyes and skin.

Eye/face protection

Wear safety glasses or chemical goggles (if splashing is possible). Standards: EN 166 or 29 CFR 1910.133.

Hand protection

In case of prolonged or frequently repeated skin contact, wear suitable gloves and personal protective equipment.

Suitable material:

Breakthrough time ≥ 8 h

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

NBR (Nitrile rubber) (0,35 mm)

FKM (fluororubber) (0,4 mm)

PVC (Polyvinyl chloride) (0,5 mm)

Butyl rubber (0,5 mm)

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Standards: EN 374

Before using, check leak tightness and impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

Respiratory protection necessary at:
Generation/formation of dust

Suitable respiratory protective equipment: Particulate Respirators, Standard: 42 CFR Part 84, Filter: R/N/P-99/100
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

No special measures are necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Colorless
Odor:	Characteristic

pH-Value:

Test method
Not determined

Changes in the physical state

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Pour point:	Not determined
Flash point:	>100 °C
Sustaining combustion:	No data available

Explosive properties

Non

Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined

Oxidizing properties

Non

Vapor pressure:	Not determined
Density:	~1 g/cm ³
Water solubility:	Completely miscible

Solubility in other solvents

Not determined

Viscosity / dynamic:	Not determined
Viscosity / kinematic:	Not determined
Flow time:	Not determined
Vapor density:	Not determined

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Evaporation rate:	Not determined
Solvent separation test:	Not determined
Solvent content:	0%

Other information

Solid content:	Not determined
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10. Stability and reactivity

Reactivity

This information is not available.

Chemical stability

Stability: Stable

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

This information is not available.

Conditions to avoid

Keep away from heat.

Incompatible materials

Reacts with acid, oxidizing agents and strong alkalis.

Hazardous decomposition products

 In case of fire, hazardous gases may be released: carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), and/or hydrogen chloride (HCl).

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Ingestion: harmful. Inhalation: harmful. Skin contact: Causes skin irritation. May cause sensitization by inhalation.

Eye contact: Causes eye irritation.

Acute toxicity

Harmful if swallowed or if inhaled.

ATEmix calculated

ATE (oral) 1010,6 mg/kg; ATE (vapor inhalation) 11,28 mg/l

CAS No	Components			
	Exposure route	Dose	Species	Source
50-01-1	Guanidine hydrochloride, guanidinium chloride			
	Oral	LD50 475 mg/kg	Rat	
	Vapor inhalation (4 h)	LC50 5.3 mg/l	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitizing effects

Based on available data, the classification criteria are not met.

Guanidine hydrochloride, guanidinium chloride (50-01-1).

No evidence for: Respiratory or skin irritation (Buehler-Test).

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Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Guanidine hydrochloride, guanidinium chloride (50-01-1)

No evidence for carcinogenicity

No evidence for in-vitro mutagenicity (Ames-Test)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

NOAEL: This information is not available.

Carcinogenicity (NTP):

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Carcinogenicity (IARC):

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Carcinogenicity (OSHA):

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

This information is not available.

Persistence and degradability

This information is not available.

Bioaccumulative potential

This information is not available.

Mobility in soil

This information is not available.

Other adverse effects

This information is not available.

13. Disposal considerations

Waste treatment methods

Advice on disposal

Dispose in accordance with all applicable regulations. Non-contaminated packages may be recycled.

Contaminated packaging

Since emptied containers may retain product residue, follow warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name:

Not a hazardous material with respect to these transport regulations. Not controlled under DOT.

Marine transport (IMDG)

UN proper shipping name:

Not restricted

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Other applicable information

Not restricted

Air transport (ICAO)

UN proper shipping name: Not restricted

Other applicable information

Not restricted

Environmental hazards

Environmentally Hazardous: No

Special precautions for user

Refer to chapter 6-8.

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

Not applicable.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

Unyvero T1 Sample Tube:
Guanidine hydrochloride is listed in the TSCA inventory.
No TSCA 12(b) components exist in this product.

National regulatory information

SARA Section 311/312 Hazards:
Guanidine hydrochloride, guanidinium chloride (50-01-1): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

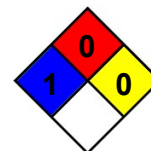
16. Other information

Hazardous Materials Information Label (HMIS)

Health:	2
Flammability:	0
Physical Hazard:	1
Personal Protection:	B

NFPA Hazard Ratings

Health:	1
Flammability:	0
Reactivity:	0
Unique Hazard:	-



Changes

Revision date:	30.01.2018
Revision No:	2.0
Rev 1.0 Initial release	03.08.2016
Rev 2.0:	Editorial changes

Abbreviations and acronyms

CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
IARC: International Agency for Research on Cancer

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IBC: Intermediate Bulk Container
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
MARPOL: marine pollution
NOAEL: No observed adverse effect level
NTP: National Toxicology Program
NOAEL: No observed adverse effect level
NTP: National Toxicology Program
NOAEL: No observed adverse effect level
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
SARA: Superfund Amendments and Reauthorization Act
TSCA: Toxic Substances Control Act
UN: United Nations

Other data

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)