

Version 2.0 SDS Number: 000000029809 Revision Date: 2016.11.29

SECTION 1. IDENTIFICATION

Product name : HUVEC – Human Umbilical Vein Endothelial Cells

Material number : CC-2519

Product code : 000000029809

Manufacturer or supplier's details

Company : Lonza Ltd

Muenchensteinerstrasse 38

CH-4002 Basel Switzerland

Business Telephone +41 61 316 81 11

Lonza Inc. - Rockland 191 Thomaston Street Rockland, ME 04841-2994

USA

Business Telephone: 1-207-594-3400

Lonza Inc. - Walkersville 8830 Biggs Ford Road Walkersville, MD 21793-0127

USA

Business Telephone 1-301-898-7025

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : For Research Use Only. Not for use in diagnostic procedures.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200

GHS label elements

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%)
:		

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Dimethyl sulfoxide 67-68-5 10.00

SECTION 4. FIRST AID MEASURES

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.

If skin irritation persists, call a physician.

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

If eye irritation persists, consult a specialist.

If swallowed : Immediately give large quantities of water to drink.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

: No information available.

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Dry powder Foam

Specific hazards during firefighting : Heating or fire can release toxic gas.

Further information : Use water spray to cool unopened containers.

Special protective equipment for

firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proce-

dures

: Use personal protective equipment.

Environmental precautions

General advice : Prevent product from entering drains.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regula-

tions (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

No special precautions required.

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Conditions for safe storage : No special storage conditions required.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dimethyl sulfoxide	67-68-5	TWA	250 ppm	WEEL

Appropriate engineering controls

Engineering measures : Avoid splashes.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : Wear suitable gloves. Take note of the information given by the

producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of con-

tact).

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentra-

tion of the dangerous substance at the work place.

No special protective equipment required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : no data available

Odour : no data available

Odour Threshold : no data available

pH : no data available

Freezing point : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Evaporation rate : no data available

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Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : no data available

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : no data available

Incompatible materials : Strong oxidizing agents

Hazardous decomposition prod-

ucts

No decomposition if stored normally.

SECTION 11. TOXICOLOGICAL INFORMATION

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

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.

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ACGIH

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

gen by ACGIH.

Further information

Remarks: No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish Remarks: no data available

Persistence and degradability

Biodegradability : Result: no data available

Bioaccumulative potential

Bioaccumulation Remarks: no data available

Components:

Dimethyl sulfoxide

Partition coefficient: nlog Pow: -1.35

octanol/water Mobility in soil

Distribution among environmental

compartments

: Remarks: no data available

Other adverse effects

Results of PBT and vPvB assess-

ment

This mixture contains no substance considered to be persistent. bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating

(vPvB).

Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Ozone-Depletion Potential

Depleting Substances (40 CFR 82, Subpt. A, App A & B) Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

: no data available Additional ecological information

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Can be disposed as waste water, when in compliance with local

regulations.

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SECTION 14. TRANSPORT INFORMATION

IATA Not dangerous goods

> **UN** number Not applicable Proper shipping name Not applicable Transport hazard class Not applicable Packing group Not applicable

Environmental hazards no

IMDG Not dangerous goods

> **UN** number : Not applicable Proper shipping name : Not applicable Transport hazard class : Not applicable Packing group : Not applicable **Environmental hazards** : Marine pollutant: no

ADR Not dangerous goods

> **UN** number : Not applicable Proper shipping name Not applicable Not applicable Transport hazard class Packing group Not applicable

Environmental hazards

RID Not dangerous goods

> **UN** number : Not applicable Proper shipping name Not applicable **Transport hazard class** Not applicable Packing group Not applicable

Environmental hazards no

DOT Not dangerous goods

> **UN** number : Not applicable Proper shipping name : Not applicable Transport hazard class : Not applicable Packing group : Not applicable

Environmental hazards : no

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TDG

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Environmental hazards : no

Special precautions for user : none

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

Code

: Not applicable

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
Ethanol	64-17-5	100	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Selenious acid	7783-00-8	10	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Dimethyl sulfoxide	67-68-5	10 - 20 %

Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ (lbs)
Acetic acid	64-19-7	5000
Zinc sulfate heptahydrate	7446-20-0	1000
Iron(II) sulfate heptahydrate	7782-63-0	1000
Copper(II) sulfate pentahydrate	7758-99-8	10

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Components	CAS-No.	Concentration
Acetic acid	64-19-7	< 0.0001 %
Zinc sulfate heptahydrate	7446-20-0	< 0.0001 %
Iron(II) sulfate heptahydrate	7782-63-0	< 0.0001 %
Copper(II) sulfate pentahydrate	7758-99-8	< 0.0001 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components	CAS-No.
Water	7732-18-5
Fetal Bovine Serum	Not Assigned
Dimethyl sulfoxide	67-68-5

New York City Hazardous Substances

No components listed on the New York City Hazardous Substances List

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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Streptomycin sulphate 3810-74-0

SECTION 16. OTHER INFORMATION

Product should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products, as recommended in the CDC-NIH Manual, "Biosafety in Microbiological and Biomedical laboratories".

WARNING: This product contains human source material, treat as potentially infectious.

Frozen cell culture suspension contains Dimethyl sulfoxide (DMSO).

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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.

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