



BIORELEVANT.COM

Safety Data Sheet FeSSIF Buffer Concentrate

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

1.1 Product identifier

Product name	FeSSIF Buffer Concentrate
Product number	FESBUF
Brand	Biorelevant.com

Other means of identification

Clear aqueous solution

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

Buffer concentrate intended for laboratory use only

1.3 Details of the supplier of the safety data sheet

Name	Biorelevant.com
Address	Suite 4 QMB Innovation Centre 42 New Road London, E1 2AX UK
Telephone	+44 (0)20 7790 5328
email	sds@biorelevant.com

1.4 Emergency telephone number

+44 (0)20 7790 5328

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Safety Data Sheet

FeSSIF Buffer Concentrate

Classification according to Regulation (EC) No 1272/2008 (CLP)

- Corrosive to metals, Cat. 1, H290
- Skin corrosion/irritation, Cat. 1C, H314
- Flammable liquids, Cat. 3, H226

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard statement(s)

H290
H314
H226

May be corrosive to metals
Causes severe skin burns and eye damage
Flammable liquid and vapor

Precautionary statement(s)

P260
P264
P280
P301+P330+P331
P303+P361+P353

P304+P340
P305+P351+P338

P332+P313
P337+P313
P363
P210

Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Hazardous components

Sodium Chloride

Concentration 47.884 % (weight)
EC no. 231-598-3

Safety Data Sheet

FeSSIF Buffer Concentrate

CAS no. 7647-14-5

- According to the majority of notifications provided by companies to ECHA in CLP notifications no hazards have been classified.

Acetic acid

Concentration 34.962 % (weight)
EC no. 200-580-7
CAS no. 64-19-7
Index no. 607-002-00-6

- Corrosive to metals, Cat. 1, H290
- Skin corrosion/irritation, Cat. 1C, H314
- Flammable liquids, Cat. 3, H226

Sodium Hydroxide

Concentration 17.19% (weight)
EC no. 215-185-5
CAS no. 1310-73-2
Index no. 011-002-00-6

- According to the majority of notifications provided by companies to ECHA in CLP notifications no hazards have been classified.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
Following inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Seek medical attention/advice if feeling unwell.
Following skin contact	Wash with plenty of soap and water for at least 15 minutes. Seek medical attention/advice if feeling unwell.
Following eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Following ingestion	Seek medical attention/advice if feeling unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

Safety Data Sheet

FeSSIF Buffer Concentrate

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of: Acetic acid vapours

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Ventilate enclosed areas.

6.2 Environmental precautions

In case of accidental release or spills, prevent contamination of surface and ground waters, sewers, soil.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

Safety Data Sheet

FeSSIF Buffer Concentrate

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National occupational exposure limits have not been developed for this material.

8.2 Exposure controls

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Personal protection equipment:

Eye and face protection

Safety glasses if there is a splash hazard. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Protective gloves.

Body protection

Wear appropriate personal protective equipment.

Respiratory protection

Not required under normal use conditions.

Thermal hazards

No data available.

Environmental exposure controls

Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear aqueous solution
Odour	Odourless
Odour 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	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability limits	No information available
Upper/lower explosive limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubilit(ies)	No information available
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available

Safety Data Sheet

FeSSIF Buffer Concentrate

9.2 Other information

No other relevant information to be added to Section 9.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Sources of ignition. Exposure to heat.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

In the event of fire: See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Skin corrosion/irritation

Possible damages: slight irritation.

Serious eye damage/irritation

Possible damages: slight irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Safety Data Sheet

FeSSIF Buffer Concentrate

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

When the product is handled appropriately, hazardous effects are unlikely to occur.

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Discharge into the environment must be avoided.

12.7 Other information

No other relevant information to be added to Section 12.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Disposal of contaminated packaging

Dispose of as unused product.

Safety Data Sheet

FeSSIF Buffer Concentrate

Waste treatment

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Sewage disposal

Do not dispose of waste into sewer.

Other disposal recommendations

Do not dispose of waste into sewer.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant.

Air transport (IATA)

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

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

Not relevant.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This substance is not listed in the Annex I of Directive 96/82/CE.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of hazard statements referenced in Section 2

H226

Flammable liquid and vapor

H290

May be corrosive to metals

H314

Causes severe skin burns and eye damage

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since we cannot control the conditions under which the product may be used, each user must review the SDS prior to usage in the context of the intended use in order to handle and employ the product in their workplace. If clarification is needed to ensure an appropriate assessment can be made, the user should contact us

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Safety Data Sheet
FeSSIF Buffer Concentrate

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