BIORELEVANT.COM

Safety Data Sheet
FaSSGF Buffer Concentrate

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

1.1 Product identifier

Product name	FaSSGF Buffer Concentrate
Product number	FASGBUF
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 United Kingdom
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

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

- Corrosive to metals, Cat. 1, H290
- Skin corrosion/irritation, Cat. 1C, H314

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	May be corrosive to metals
H314	Causes severe skin burns and eye damage

Precautionary statement(s)

P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material-damage.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Hydrochloric acid

Concentration	93.054 % (weight)
EC no.	231-595-7
CAS no.	7647-01-0
Index no.	017-002-01-X

- Corrosive to metals, Cat. 1, H290
- Skin corrosion/irritation, Cat. 1C, H314

Sodium Chloride

Concentration	6.946 % (weight)
EC no.	231-598-3
CAS no.	7647-14-5

- 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	Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Seek medical attention/advice if irritation develops or persists. Wash contaminated clothing before reuse.
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	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Seek medical attention/advice if feeling unwell.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye and skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

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

Not combustible.
Ambient fire may liberate hazardous vapours.
Fire may cause evolution of: Hydrogen chloride gas

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

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.

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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

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 protective clothing.

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

9.2 Other information

No other relevant information to be added to Section 9.

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with: Metals
Risk of explosion/exothermic reaction with: Alkali metals
Exothermic reaction with: Lithium

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Metals, metal alloys.

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.

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.

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

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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