

BIORELEVANT.COM

Safety Data Sheet FeSSIF-V2

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

1.1 Product identifier

Product name	FeSSIF-V2
Product number	V2FES
Brand	Biorelevant.com

Other means of identification

White to slightly yellow, free flowing powder

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

Laboratory chemicals (for solubility and dissolution testing)

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 77905328
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)

- Skin corrosion/irritation, Cat. 2, H315
- Serious eye damage/eye irritation, Cat. 2, H319

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

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2.2 Label elements

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

Hazard pictograms



Signal word

Warning

Hazard statement(s)

H315
H319
H335

Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Precautionary statement(s)

P261
P264
P271
P280
P302+P352

Avoid breathing dust.
Wash hands thoroughly after handling.
Use in a well-ventilated area or inside a fume hood.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/ Specific treatment (see Section 4).

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
P337+P313
P362+P364

If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Sodium Taurocholate

Concentration 56.4% - 62.4% (weight)
EC no. 205-653-7
CAS no. 145-42-6

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Glycerol Monooleate

Concentration 20.2 - 22.3 % (weight)
EC no. 247-038-6
CAS no. 25496-72-4

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

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Soybean Lecithin

Concentration	16.1 - 17.7 % (weight)
EC no.	310-129-7
CAS no.	8030-76-0

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

Sodium oleate

Concentration	2.5 - 2.7 % (weight)
EC no.	205-591-0
CAS no.	143-19-1

- 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.
Following skin contact	Wash with plenty of water for at least 15 minutes. Seek medical attention/advice if irritation develops or persists. Take off contaminated clothing and wash it 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. If eye irritation persists: seek medical attention/advice.
Following ingestion	If ingested, rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.
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

Note to physician: treat symptomatically.

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

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO₂).

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5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment to prevent contamination of skin, eyes and personal clothing. Ensure adequate ventilation. Avoid dust formation. Remove ignition sources.

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

Stop the spill if it can be done safely. Collect the material with mechanic means, wearing appropriate protective equipment, and store in a clean and appropriate waste disposal container. Wash the area with water.

6.4 Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust, vapour, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a refrigerator. Store in containers correctly labelled. Protect from light and humidity for stability purposes.

7.3 Specific end use(s)

Laboratory Reagent

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

Ensure that eyewash stations and safety showers are close to the workstation location.

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.

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Personal protection equipment:

Eye and face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear appropriate gloves to prevent skin exposure (minimum requirement).

Body protection

Wear appropriate personal protective equipment.

Respiratory protection

Filtering face dust (EN149) medium degree of protection (FFP2).

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	White to slightly yellow powder solid
Odour	Not Distinctive
Odour threshold	Not applicable
pH	7.6 9.8 g/L aq. solution (typical FeSSIF-V2 conc.)
Melting point / freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	Not applicable / Solid
Flammability (solid, gas)	No information available
Upper/lower flammability limits	No information available
Vapour pressure	Not applicable / Solid
Vapour density	No information available
Relative density	No information available
Solubilit(ies)	≈400 g in 1 litre of water (20°C)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	Not applicable / Solid
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

None under normal use conditions.

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10.2 Chemical stability

Stable at refrigerated conditions in closed containers. Product is hygroscopic. Protect from moisture.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat: do not expose to heat or ignition sources.

10.5 Incompatible materials

Avoid contact with strong oxidizing and reducing agents.

10.6 Hazardous decomposition products

Combustion may produce toxic and hazardous fumes (CO_x).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

Irritating to skin

Serious eye damage/irritation

Causes eye irritation

Respiratory or skin sensitization

May cause irritation to the respiratory system. No skin sensitisation 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

Not applicable / Solid

SECTION 12: Ecological information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2 Persistence and degradability

Highly soluble in water: persistence is unlikely.

12.3 Bioaccumulative potential

No data available for assessment.

12.4 Mobility in soil

The product is water soluble and may spread in water systems. Will likely be mobile in the environment due to its water solubility and thus mobile in soils.

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

No other adverse effects are expected.

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

Any disposal practice must be in compliance with all local and national laws and regulations. Send to controlled landfills or authorized incinerators.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Do not dispose of waste into sewer.

Sewage disposal

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.

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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

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of hazard statements referenced in Section 2

H315

Causes skin irritation

H319

Causes serious eye irritation

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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