1.1 Product identifier

Product name: FaSSIF/FeSSIF/FaSSGF
Product number: FFF
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.
2.2 Label elements

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

Hazard pictograms

Signal word | Warning
---|---

Hazard statement(s)
H315 | Causes skin irritation
H319 | Causes serious eye irritation
H335 | May cause respiratory irritation

Precautionary statement(s)
P261 | Avoid breathing dust.
P264 | Wash hands thoroughly after handling.
P271 | Use in a well-ventilated area or inside a fume hood.
P280 | Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 | 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 | If skin irritation occurs: Get medical advice/attention.
P337+P313 | If eye irritation persists: Get medical advice/attention.
P362+P364 | 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 | 70.3 - 77.7 % (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

**Soybean Lecithin**
Concentration | 24.8 - 27.4 % (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.
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).

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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to slightly yellow powder solid</td>
</tr>
<tr>
<td>Odour</td>
<td>Not Distinctive</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 0.1 g / L aq. solution (typical FaSSGF conc.)</td>
</tr>
<tr>
<td></td>
<td>5.4 2.0 g / L aq. solution (typical FaSSIF conc.)</td>
</tr>
<tr>
<td></td>
<td>5.0 10.0 g / L aq. solution (typical FeSSIF conc.)</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable / Solid</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable / Solid</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility</td>
<td>≈600 g in 1 litre of water (20°C)</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable / Solid</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No information available</td>
</tr>
</tbody>
</table>

#### 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 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 oxidising and reducing agents.

#### 10.6 Hazardous decomposition products

Combustion may produce toxic and hazardous fumes (COx).
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.

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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