

# Safety Data Sheet for FeSSIF-V2 (Mini Prep)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### Safety Data Sheet (SDS) cover page for FeSSIF-V2 (Mini Prep)

|                      |                   |
|----------------------|-------------------|
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## SECTION 1: Identification of the mixture and of the company/undertaking

### 1.1 Product identifier

|              |                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Name         | FeSSIF-V2 (Mini Prep)                                                                                                                 |
| Description  | Powder containing sodium taurocholate, soy lecithin and lipolysis products and Liquid concentrate for preparation of FeSSIF-V2 buffer |
| Code         | V2FES-MP                                                                                                                              |
| Type         | Mixture                                                                                                                               |
| Manufacturer | Biorelevant                                                                                                                           |

#### Other means of identification

White to slightly yellow powder in glass vial and clear solution in translucent HDPE bottle.

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

Laboratory reagents.

### 1.3 Details of the supplier of the safety data sheet

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| Name      | Biorelevant                                                              |
| Address   | QMB Innovation Centre<br>42 New Road<br>London, E1 2AX<br>United Kingdom |
| Telephone | +44 (0)20 7531 9632                                                      |
| Email     | sds@biorelevant.com                                                      |

### 1.4 Emergency telephone number

Telephone Number: +44 (0)20 7531 9632

## SECTION 2: Hazards identification

### General hazard statement

Substances are not classified as dangerous according to European Union legislation.

### 2.1 Classification of the substance or mixture

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

|      |                        |
|------|------------------------|
| H315 | Skin irritation        |
| H319 | Eye irritation         |
| H335 | Respiratory irritation |

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

### 2.2 Label elements

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

#### Hazard pictograms



#### Signal word

**Irritant**

#### Hazard statement(s)

|      |                        |
|------|------------------------|
| H315 | Skin irritation        |
| H319 | Eye irritation         |
| H335 | Respiratory irritation |

#### Precautionary statement(s)

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| P234 | Keep only in original container                                           |
| P261 | Avoid breathing dust                                                      |
| P271 | Use in a well-ventilated area or inside a fume hood                       |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |

### 2.3 Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.1 Substance**

Not applicable.

**3.2 Mixtures**

Potentially hazardous components:

**Sodium Taurocholate**

|               |                                  |
|---------------|----------------------------------|
| Concentration | 55- 65% (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 |

**Citric Acid**

|               |                                   |
|---------------|-----------------------------------|
| Concentration | 1-10 % weight in aqueous solution |
| EC no.        | 201-069-1                         |
| CAS no.       | 77-92-9                           |
| H319          | Eye irritation                    |

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

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**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 SDS where possible).                                                                 |
| In case of inhalation              | Move into fresh air.<br>If symptoms persist, call a physician.                                                                                                        |
| In case of skin contact            | Remove contaminated clothing and wash it before reuse.<br>Wash with plenty of water for at least 15 minutes.<br>if irritation develops or persists, call a physician. |
| In case of eye contact             | Remove contact lenses.<br>Protect unharmed eye.<br>Rinse cautiously with water for at least 15 minutes.<br>If eye irritation persists, call a physician.              |
| In case of ingestion               | If accidentally ingested, rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water, call a physician.                             |
| 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**

The most important known symptoms and effects are described in Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

Note to physician: treat symptomatically.

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**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**

Fire may liberate hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides and Sodium oxides.

**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.

Advice for non-emergency personnel: Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment 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

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 Section 13.

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## 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. Change contaminated clothing. Wash hands after working with mixtures. For precautions see Section 2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Do not transfer out of original containers. Protect from light and humidity for stability purposes.

### 7.3 Specific end use(s)

Laboratory reagents.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values

### 8.2 Exposure controls

#### Personal protection equipment:

##### Eye and face protection

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

##### Skin protection

Wear appropriate protective 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.

##### 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| Appearance                              | White to slightly yellow powder solid and clear aqueous solution |
| Odour                                   | No information available                                         |
| 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                                         |
| Vapour pressure                         | No information available                                         |
| Vapour density                          | No information available                                         |
| Relative density                        | No information available                                         |
| Solubility                              | Freely soluble                                                   |
| 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

None under normal use conditions.

### 10.2 Chemical stability

Stable at room temperature.

### 10.3 Possibility of hazardous reactions

None under normal use conditions. Hazardous decomposition products formed under fire conditions.

Liquid 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

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

In the event of fire: see Section 5.

## 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.

**Additional information**

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

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

### 12.2 Persistence and degradability

Highly soluble in water: persistence is unlikely.

### 12.3 Bio-accumulative 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.

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## 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. Leave chemicals in original containers. Handle uncleaned containers like the product itself.

#### 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.

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## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1 - 14.6

Not regulated as a dangerous good.

**Inland waterway transport (ADN)**

**14.1 - 14.6**

Not regulated as a dangerous good.

**Air transport (IATA)**

**14.1 - 14.6**

Not regulated as a dangerous good.

**Sea transport (IMDG)**

**14.1 - 14.6**

Not regulated as a dangerous good.

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

Not applicable for product as supplied.

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**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.

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**SECTION 16: Other information**

**Full text of hazard statements referenced in Section 2**

|      |                                  |
|------|----------------------------------|
| H315 | Causes skin irritation           |
| H319 | Causes eye irritation            |
| H335 | May cause respiratory 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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