Material Safety Data Sheet

1. PRODUCT INFORMATION

Product name:  *Spodoptera frugiperda* Sf9 insect cells in ESF 921 medium containing 10% v/v DMSO

Product code:  600100

Company undertaking Identification:  Oxford Expression Technologies Ltd, Gipsy Lane Campus, Oxford OX3 0BP, UK

Customer service:  info@oetltd.com

Emergency information:  office hours +44(0)1865 483236

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>EINECS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>67-68-5</td>
<td>-</td>
<td>7-13</td>
</tr>
</tbody>
</table>

The product contains no substances, which at their given concentration, are considered to be hazardous to health.

3. HAZARDS IDENTIFICATION

Classification
The product is classified and labelled in accordance with Directive 1999/45/EC

Form
Liquid

Principle routes of exposure/Potential health effects

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Mild eye irritation</td>
</tr>
<tr>
<td>Skin</td>
<td>Moderate skin irritation; may be absorbed into body through skin</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed</td>
</tr>
</tbody>
</table>

Specific effects

Carcinogenic effects  No information available
### Mutagenic effects
No information available

### Reproductive toxicity
No information available

### Sensitization
No information available

### Target Organ Effects
No information available

## 4. FIRST AID MEASURES

### Skin contact
Wash off immediately with plenty of water

### Eye contact
Wash thoroughly with water, also under eyelids

### Ingestion
No specific measure: never give anything by mouth to unconscious person

### Inhalation
No specific measure: move to fresh air

### Notes to physician
Treat symptomatically

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media
Dry chemical

### Special protective equipment for fire fighters
Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions
Use standard personal protective equipment

### Methods for clean up
Soak up with inert absorbent material

## 7. HANDLING AND STORAGE

### Handling
No special handling advice required

### Storage
Keep in properly labelled containers

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

### Exposure limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU OEL (TWA)</th>
<th>EU OEL (STEL)</th>
<th>EU Skin Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Australia OEL (MAK)</th>
<th>Belgium (TWA)</th>
<th>Denmark (TWA)</th>
<th>Finland OEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>160 mg/m³ 50ppm</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>France OEL (VME)</th>
<th>Germany OEL (TWA)</th>
<th>Ireland (TWA)</th>
<th>Italy OEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>-</td>
<td>160 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Chemical Name | Netherlands OEL (MAC) | Spain OEL (TWA) | United Kingdom
--- | --- | --- | ---
Dimethylsulphoxide | 150 mg/m³ | - | -

**Engineering measures**
Ensure adequate ventilation in confined areas

**Personal protective equipment**

**Respiratory protection**
In case of inadequate ventilation wear suitable respiratory equipment

**Hand protection**
Impervious butyl rubber gloves. Nitrile gloves are not recommended as breakthrough times may be 5 mins

**Eye protection**
Safety glasses with side shields

**Skin and body protection**
Lightweight protective laboratory coat

**Hygiene measures**
Wash hands before leaving laboratory and other good hygiene practices

**Environmental exposure controls**
Prevent product from entering the drains by appropriate disposal into biohazard waste containers

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**General information**

**Form**
Liquid

**Health & Safety and Environmental information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/range</td>
<td>data not known</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>data not known</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>data not known</td>
</tr>
<tr>
<td>Autoignition point</td>
<td>data not known</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Stability**
Stable

**Materials to avoid**
Data not known

**Hazardous decomposition products**
Data not known

**Polymerisation**
Hazardous polymerisation does not occur

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>14500 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
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</table>
Main routes of exposure / potential health effects

Eyes
- Mild eye irritation

Skin
- Moderate skin irritation; may be absorbed into body through skin

Inhalation
- No information available

Ingestion
- May be harmful if swallowed

Specific Effects

Carcinogenic effects
- No information available

Mutagenic effects
- No information available

Reproductive toxicity
- No information available

Sensitization
- No information available

Target Organ Effects
- No information available

12. ECOLOGICAL EFFECTS

Ecotoxicity effects
- No information available

Mobility
- No information available

Biodegradation
- Inherently biodegradable

Bioaccumulation
- Does not occur

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT CONSIDERATIONS

IATA

Proper shipping name
- Not classified as dangerous in the meaning of transport regulations

Hazard class
- No information available

Subsidiary class
- No information available

Packing group
- No information available

UN-No
- No information available

RID/ADR
- Non-hazardous for road transport

IMDG
- Non-hazardous for sea transport

15. REGULATORY INFORMATION


R-phrase
- No information available

S phrase
- No information available
## International inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>PICCS</th>
<th>ENCS</th>
<th>CHINA</th>
<th>TSCA</th>
<th>AICS</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylsulphoxide</td>
<td>Listed</td>
<td>Listed</td>
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### 16. OTHER INFORMATION

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### END OF MATERIAL SAFETY DATA SHEET

Revised and updated 1/1/2019