Material Safety Data Sheet
According to 2001/58/EC

1 Identification of the substance/preparation and the company/undertaking

<table>
<thead>
<tr>
<th>Trade name</th>
<th>10% v/v Buffered Formalin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article number</td>
<td>MA 10% B FOR -</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Serosep Limited</td>
</tr>
<tr>
<td>Trade name</td>
<td></td>
</tr>
<tr>
<td>Article number</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Serosep Limited</td>
</tr>
<tr>
<td>Eastway Business Park</td>
<td></td>
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<tr>
<td>Limerick</td>
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<tr>
<td>Ireland</td>
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<tr>
<td>Tel +353 61 440207</td>
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<tr>
<td>Fax +353 61 440237</td>
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<tr>
<td>Emergency + 353 86 3861542</td>
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</tbody>
</table>

2 Composition/information on ingredients

**Chemical characterisation**
Mixture of substances listed below with harmless additions

**Description**
Mixed

**Dangerous Components**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Formaldehyde Solution 37%</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-00-0</td>
<td></td>
</tr>
</tbody>
</table>

**R23/24/25-34-40-43**

**EINECS**

<table>
<thead>
<tr>
<th>820-001-8</th>
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</thead>
</table>

3 Hazards identification

**Hazard description**
Xn Harmful

**Information concerning to particular hazards to man and environment**

<table>
<thead>
<tr>
<th>R40</th>
<th>Limited evidence of carcinogenic effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>R43</td>
<td>May cause sensitisation by skin contact</td>
</tr>
</tbody>
</table>

**Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

4 First aid measures

**After inhalation**
Supply fresh air and call for doctor for safety reasons

**After skin contact**
Instantly wash with water and soap and rinse thoroughly
If skin irritation continues, consult a doctor

**After eye contact**
Rinse opened eye for several minutes under running water
If symptoms continue, consult a doctor

**After swallowing**
Call for doctor immediately
Rinse out mouth

5 Fire fighting measures

**Suitable extinguishing agents**
Use fire fighting measures that suit the environment

**Protective equipment**
Put on breathing apparatus
6 Accidental release measures

Person related safety precautions
Wear protective equipment. Keep unprotected persons away

Measures for environmental protection
Do not allow to enter sewers / surface or ground water

Measures for cleaning/collection
Absorb with liquid binding material (sand, acid binders, universal binders, sawdust)
Dispose contaminated material as waste according to item 13
Ensure adequate ventilation

7 Handling and storage

Handling
PPE to be worn see Section 8
Information for safe handling Ensure good ventilation at workplace
Information about fire and explosion protection No special measures required

Storage
Requirements to be met by storerooms and receptacles None
Information about storage in one common storage facility Not required
Further information about storage conditions Keep tightly sealed

8 Exposure controls / personal protection

Additional information about design of technical facilities
No further data, see item 7.

Ingredients with limit values that require monitoring at the workplace

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>MEL</th>
<th>Short term value</th>
<th>Long term value</th>
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</thead>
<tbody>
<tr>
<td>Formaldehyde Solution 37% (50-00-0)</td>
<td></td>
<td>2.5 mg/m$^3$, 2 ppm</td>
<td>2.5 mg/m$^3$, 2 ppm</td>
</tr>
</tbody>
</table>

The lists valid during the making were used as basis

Personal Protective equipment

General protective and hygienic measures
Keep away from foodstuffs, beverages and feed
Instantly remove any soiled and impregnated garments
Wash hands before breaks and at the end of work
Avoid contact with eyes and skin.

Respiratory protection
In case of brief exposure or low pollution use respiratory filter device. In case of extensive or longer exposure use self contained respiratory protective device

Protection of hands Protective Gloves
Eye protection Tightly sealed safety glasses
Body Protection Protective work clothing
9 Physical and chemical properties

General Information
Form: Fluid
Colour: Colourless
Odour: Like aldehyde

Change in condition
Melting point: Not determined
Boiling point: Not determined
Flash point: not applicable
Self igniting: Product is not self igniting

Danger of explosion
Product does not present an explosion hazard
Explosion Limits
Lower: 7.0 Vol %
Upper: 73.0 Vol %

Vapour Pressure at 20 degC: 23 hPa
Density at 20degC: Not determined
Solubility/miscibility with water: Fully miscible
Solvent content
Organic solvent: 0%

10 Stability and reactivity

Thermal decomposition / conditions to be avoided
No decomposition is used according to specifications

Dangerous reactions
No dangerous reactions known

Dangerous decomposition products
No dangerous decomposition products known

11 Toxicological Information

Acute toxicity
50-00-0 Formaldehyde Solution 37%
LD/LC50 values relevant for classification
Oral LD50 >200 mg/kg (rat)

Primary irritant effect
on skin: Light irritant
on eye: Redness, pain

Sensitisation
Sensitisation possible by skin contact

Additional toxicological information
The product shows the following dangers according to the calculation method of the General Classification Guidelines for Preparations as issues in the latest version
Irritant
12 Ecological Information

General Notes
Water hazard class 1 (German Regulation) (Self assessment):
slightly hazardous for water
Do not allow undiluted product to reach ground water, water course or sewage system

13 Disposal Considerations

Recommendations
Must not be disposed together with household garbage. Do not allow product to reach
sewage system

Uncleaned packaging

Recommendation
Disposal must be made according to official regulations

Recommended cleansing agents
Water, if necessary together with cleansing agents.

14 Transport Information

Land transport ADR/RID (cross border)
ARD/RID class

Maritime transport IMDG
IMDG Class
Marine Pollutant
No

Air transport ICAO and IATA-DGR

15 Regulatory Information

Labeling according to EU guidelines
Observe the general safety regulations when handling chemicals
The product has been classified and marked in accordance with EU Directives on hazardous materials
(GefStoffV)

Code letter and Hazard designation of product
Xn Harmful

Hazard determining components of labeling
Formaldehyde Solution 37%

Risk phrases
R40 Limited evidence of carcinogenic effec
R43 May cause sensitisation by skin contact

Safety phrases
S 36/37 Wear suitable protective clothing and gloves

National regulations

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
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<tbody>
<tr>
<td>Water</td>
<td>88.2</td>
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<tr>
<td>I</td>
<td>11.2</td>
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Water hazard class
Water hazard class 1 (self assessment) : Slightly hazardous for water

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee
for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R phrases
23/24/25 Toxic by inhalation, in contact with skin and if swallowed
34 Causes Burns
40 Limited evidence of a carcinogenic effect
43 May cause sensitisation by skin contact

Department issuing M.S.D.S
H&S

Contact
J O Connor