

**Dr Johnson's Sterilising Fluid  
Safety Data Sheet**

**1. Identification of the substance/ mixture and of the company/undertaking**

1.1 Product: Dr Johnson's Sterilising Fluid  
 1.2 Use of the preparation: Disinfection Of Utensils & Work Surfaces  
 1.3 Company: MPM Consumer Products Ltd  
 33 Croft Street  
 Clayton  
 Manchester  
 M11 4RQ  
 Tel: (0161)2316111 Fax: (0161)231 7100  
 www.mpmconsumerproducts.com  
 1.4 Emergency Telephone: (0161) 231 6111 (office hours only)

**2. Hazards Identification**

2.1 Classification of the substance or mixture

Classification

**Physical Hazards:-** Not Classified

**Health Hazards:-** Skin Irrit.2 - H315 Causes skin irritation  
 Eye Irrit. 2 - H319 Causes serious eye irritation

**Environmental Hazards-** Aquatic Chronic 3 - H412

2.2 Label elements

Pictogram



**Signal word**

Warning

**Hazard statements**

H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H412 Harmful to aquatic life with long lasting effects

**Precautionary statements**

P102 Keep out of reach of children  
 P273 Avoid release to the environment.  
 P280 Protective gloves/protective clothing/eye protection/face protection  
 P332 +P313 +P310 If skin irritation occurs : Get medical advice/ attention. Immediately call a POISON CENTRE/ doctor  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 IF eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local requirements for domestic waste disposal

**Detergent labelling**

1.3% w/w sodium Hypochlorite

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2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB

**3. Composition/ Information on Ingredients**

3.2 Mixtures

<b>Sodium Hypochlorite, solution</b>	<b>1.0 - &lt;2.5%</b>
<b>CAS no:</b> 7681-52-9	
<b>EC no:</b> 231-668-3	
<b>REACH registration no:</b> 01-2119488154-34	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C; R34, N; R50, R31
EUH031	
Skin Corr. 1B - H314	
Aquatic Acute 1 - H400	
Aquatic Chronic 2 - H411	

<b>Sodium hydroxide</b>	<b>&lt;0.1%</b>
<b>CAS no:</b> 310-73-2	
<b>EC no:</b> 215-185-5	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C; R35
Skin Corr. 1A, H314	
Eye Dam 1. H318	

The full text for all R- Phrases and Hazard Statements are Displayed in section 16

**4. First Aid Measures**

4.1. Description of first aid measures

- Inhalation:** Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
- Ingestion:** Rinse mouth out with water and drink copious amounts of water. Do not induce vomiting. If symptoms persist seek medical advice.
- Skin contact:** Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
- Eye contact:** Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Inhalation:** Not expected to be irritating to the respiratory system. Not volatile therefore limited inhalation exposure anticipated
- Ingestion:** May cause mild stomach upset
- Skin contact:** May cause skin irritation & sensitisation or allergic reactions in sensitive individuals
- Eye contact:** May cause severe irritation to eyes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**5. Fire Fighting Measures**

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### 5.1. Extinguishing media

**Extinguishing media :** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards:** No specific firefighting precautions applicable when small quantities are involved in the fire

**Hazardous combustion products:** Thermal decomposition will evolve Chlorine. Contact with heavy metals, their compounds and alloys the product decomposes with evolution of oxygen

### 5.3. Advice for firefighters

**Protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear breathing apparatus suitable for chlorine gas

## 6. Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions :** Take care as floors and other surfaces may become slippery.

### 6.2. Environmental precautions

**Environmental precautions:** Large Spillages - Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up:** Take care as floors and other surfaces may become slippery. Large Spillages: Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections:** See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and Storage

### 7.1. Precautions for safe handling

**Usage precautions:** Read and follow manufacturer's recommendations on label. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use.

**Advice on general occupational hygiene:** Remove contaminated clothing and protective equipment before entering eating areas. Wash at the end of each work shift and before eating, smoking and using the toilet.

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

**Storage precautions :** Store in tightly-closed, original container. Store upright in a cool , safe place away from direct sunlight.

### 7.3. Specific end use(s)

**Specific end use(s):** As stated in Section 1.2.

## 8. Exposure controls/ Personal Protection

### 8.1. Control parameters

**Occupational exposure limits**

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### Sodium Hydroxide

Short term exposure limit (15 mins) WEL 2mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Ingredient Comments

Chlorine vapour STEL 15min 0.5 ppm, 1.5 mg/m<sup>3</sup>

#### DNEL

Industry Inhalation. Long Term 1.55 mg/m<sup>3</sup>      Industry Inhalation. Short Term 3.1 mg/m<sup>3</sup>  
 Consumer Inhalation. Long Term 1.55 mg/m<sup>3</sup>      Consumer Inhalation. Short Term 3.1 mg/m<sup>3</sup>  
 Consumer Oral Long Term Systemic Effects 0.26 mg/kg/day

#### 8.2. Exposure controls

##### Appropriate engineering

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

##### Hand protection

For users with sensitive skin, it is recommended that suitable protective gloves are worn.

##### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

##### Hygiene measures

When using do not eat, drink or smoke. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

##### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

##### Environmental exposure controls

Keep container tightly sealed when not in use. Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Clear liquid.
<b>Colour:</b>	Colourless – pale yellow
<b>Odour:</b>	Characteristic Chlorine Odour.
<b>Odour Threshold :</b>	Not available.
<b>pH:</b>	11.50 – 12.5
<b>Melting point :</b>	~0°C
<b>Initial boiling point and range :</b>	102°C
<b>Flash point:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Evaporation factor:</b>	Not available.
<b>Flammability (solid, gas):</b>	The product is not flammable.
<b>Upper/lower flammability or explosive limits:</b>	Not available.
<b>Vapour pressure :</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Relative density:</b>	1.07-1.11 @ 20°C
<b>Bulk density:</b>	Not available.
<b>Solubility(ies):</b>	Soluble in water.
<b>Partition coefficient :</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.

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<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive properties:</b>	Not considered to be explosive.
<b>Oxidising properties:</b>	Does not meet the criteria for classification as oxidising.
9.2 Other Information	
<b>Other Information :</b>	No information required

**10. Stability and Reactivity**

10.1. Reactivity

See the other subsections of this section for further details.

10.2. Chemical stability

**Stability:** Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

If the solution is acidified free chlorine will be evolved .

10.4. Conditions to avoid

Store in a cool dry place away from direct sunlight .

10.5. Incompatible materials

**Materials to avoid:** Strong acids. Contact with strong acids liberates toxic chlorine gas. Decomposition with evolution of oxygen is accelerated by heat and light and also by contact with metals, particularly copper, nickel and iron

10.6. Hazardous decomposition products

Chlorine compounds.

**11. Toxicological Information**

**11.1. Information on toxicological effects**

**Acute toxicity - oral**

Based on available data the classification criteria are not met.

**Acute toxicity - dermal**

Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**

Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data**

Causes skin irritation.

**Serious eye damage/ irritation**

Causes serious eye irritation.

**Respiratory sensitisation**

Based on available data the classification criteria are not met.

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**Skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

**Reproductive toxicity - fertility**

Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**Toxicological information on ingredients.**

**Sodium Hypochlorite**

**Acute toxicity - oral**

**Acute toxicity oral (LD50 mg/kg)** >1200 Based on raw material suppliers' information

**Species** Rat

**Acute toxicity - dermal**

**Acute toxicity dermal (LD50 mg/kg)** >2000 Based on raw material suppliers' information the classification criteria are not met.

**Species** Rat

**Skin Corrosion/Irritation:** Corrosive

**Respiratory or skin sensitisation:** Not Sensitising.

**Germ cell mutagenicity:** This substance has no evidence of mutagenic properties.

**Carcinogenicity:** This substance has no evidence of carcinogenic properties.

**Inhalation:** Mist/droplets are corrosive to the respiratory tract, and will cause a burning sensation in the throat, coughing and breathing difficulties.

**Ingestion:** If ingested will cause severe damage to gastrointestinal tract.

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**Skin contact:** Causes burns. Prolonged or repeated contact may cause dermatitis

**Eye contact:** Risk of serious damage to eyes. Risk of corneal damage.

**12. Ecological Information**

12.1. Toxicity

Harmful to aquatic life with long lasting effects. Large or frequent spills may have an adverse effect on the environment

**Ecological information on ingredients.**

**Sodium Hypochlorite**

Fish	LC50, 96Hrs	0.01 – 0.1 mg/l active chlorine
Daphnia	EC50, 48Hrs	0.01- 0.1mg/l
Alga	IC50, 72Hrs	Technically unfeasible

Acute Toxicity - Microorganisms  
LOEC 0.375 mg/l Activated sludge

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) contained in this product complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**Ecological information on ingredients.**

**Sodium Hypochlorite**

**Persistence and degradability** The product quickly decomposes in water or soil

12.3. Bioaccumulative potential

Product is not expected to bioaccumulate

**Ecological information on ingredients.**

**Sodium Hypochlorite**

The product will not bio-accumulate

12.4 Mobility in soil

The product is soluble in water

**Ecological information on ingredients.**

**Sodium Hypochlorite**

The product is soluble in water

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB

12.6 Other adverse effects

None known

**13. Disposal Considerations**

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13.1. Waste treatment methods

**General information** Harmful to aquatic life with long lasting effects

**Disposal methods** : Dispose of contents/container in accordance with national regulations

### 14. Transport Information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. **UN number** : Not applicable.

14.2. **UN proper shipping name**: Not applicable.

14.3. **Transport hazard class(es)**: No transport warning sign required.

14.4. **Packing group**: Not applicable.

14.5. **Environmental hazards**:

Environmentally hazardous substance/marine pollutant: No.

14.6. **Special precautions for user**: Not applicable.

14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** : Not applicable.

### 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations**

EH40/2005 Workplace exposure limits. The Chemical (Hazard Information and Packaging for Supply) Regulation 2009 (SI 2009 No. 716)

**EU legislation**

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
- Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No. 648/2004 of the European Parliament and of the Council of 31st March 2004 on detergents.

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

### 16. Other Information

**Revision Comments** Format and content change to conform Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended)

**Revision Date** 2.6.2015

**Revision** 04

**Risk Phrases In Full**

R31 Contact with acids liberates toxic gas  
R34 Causes burns  
R35 Causes severe burns  
R50 Very toxic to aquatic organisms

**Hazard Statements In Full**



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H290 May be corrosive to metals  
H314 Causes severe burns and eye damage  
H318 Causes serious eye damage  
H400 Very toxic to aquatic life  
H411 Toxic to aquatic life with long-lasting effects

**Disclaimer**

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