

**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 -Liquid product -Product does not contain any nanomaterials
1.2 Use of the preparation	Disinfection of Baby Feeding Equipment and Nursery & Kitchen Work Surfaces - Biocidal product -Product Type 02 & 04
1.3 Company	MPM Consumer Products Ltd 33 Croft Street Clayton Manchester M11 4RQ Tel: (0161)2316111 Fax: (0161)231 7100 <a href="http://www.mpmconsumerproducts.com">www.mpmconsumerproducts.com</a>
1.4 Emergency Telephone	(0161) 231 6111
1.5 Unique Formula Identifier (UFI) code:	0500-W023-T00G-QT90

**2. Hazards Identification**

**2.1 Classification of the substance or mixture**

Classification: Mixture

Physical Hazards - May be corrosive to metals, Category 1- Met. Corr. 1, H290

Health Hazards - Skin Irritation, Category 2 – Skin Irrit. 2, H315  
Eye Irritation, Category 2 - Eye Irrit. 2, H319

Environmental Hazards- Acute hazard, Category 1 - Aquatic Acute 1, H400  
Environmental Hazards- Chronic hazard, Category 3 - Aquatic Chronic 3, H412

**2.2 Label elements**

Hazard pictograms



Signal word

Warning

Hazard statements

H290 Maybe corrosive to metals  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H400 Very toxic to aquatic life  
H412 Harmful to aquatic life with long lasting effects  
EUH031 Contact with acids liberates toxic gas.

Precautionary statements

P101 If medical advice is needed, have product container or label to hand  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P274 Keep in original container

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P280 Protective gloves/protective clothing/eye protection/face protection  
 P332 +P313 +P310 If skin irritation occurs; Get medical advice/ attention.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water  
 P362 Take off contaminated clothing and wash before reuse.  
 P337 + P313 IF eye irritation persists: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local requirements for domestic waste disposal

**2.3 Other hazards**

Contact with acids: Liberates toxic gas (EUH 031)  
 Warning! Do not use with other products may release dangerous gases (chlorine) (EUH206)

This product does not contain any substances classified as PBT or vPvB\*  
 This product does not contain any substance classified as "Substances of Very High Concern"  
 \*As defined by REACH Regulation EC No 1907/2006

**3. Composition/ Information on Ingredients**

<b>Sodium Hypochlorite, 14 – 15% Solution</b>	<b>&lt;2.0% a.i.</b>
<b>CAS no:</b> 7681-52-9	
<b>EC no:</b> 231-668-3	
<b>REACH registration no:</b> 01-2119488154-34	

**Classification \***  
 Met. Corr. 1 - H290  
 Skin Corr. 1B - H314  
 Eye Damage 1 –H318  
 Aquatic Acute 1 - H400  
 Aquatic Chronic 2 - H411  
 EUH031

\*According to suppliers SDS

**4. First Aid Measures**

**4.1. Description of first aid measures**

**Inhalation** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.  
**Ingestion** Rinse mouth out with water, do not induce vomiting and seek medical attention immediately, showing the label.  
**Skin contact** Remove contaminated clothing and wash the skin thoroughly with soap and water.  
 Get medical attention if any discomfort continues.  
**Eye contact** Promptly wash eyes with plenty of clean water while lifting the eye lids.  
 Make sure to remove any contact lenses from the eyes. If there is any redness, pain or visual impairment, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed – no data available**

**4.3. Indication of any immediate medical attention and special treatment needed - Treat symptomatically**

**5. Fire Fighting Measures**

**5.1. Extinguishing media**

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Extinguishing media- Use fire-extinguishing media appropriate for surrounding materials.  
Unsuitable extinguishing media- Do not use water jet

**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** - No data available

**6. Accidental Release Measures**

**6.1. Personal precautions, protective equipment and emergency procedures** – see sections 7 and 8

**6.2. Environmental precautions**

Large Spillages - Do not discharge into drains or watercourses or onto the ground. Contain with inert absorbent materials

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

Take care as floors and other surfaces may become slippery. Large spillages, absorb with inert absorbent material. Flush contaminated area with plenty of water. Wash thoroughly with detergent. Do not use solvents

**6.4. Reference to other sections** - See Section 11, 12 and 13

**7. Handling and Storage**

**7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations on label.  
Always wash hands after handling  
Remove and wash contaminated clothing before re-use  
Avoid skin and eye contact  
No smoking, eating or drinking in area where mixture is used

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

Store in tightly-closed, original container. Store upright in a cool, safe place away from direct sunlight.  
Keep away from food and drink

**7.3. Specific end use(s)** No data available

**8. Exposure controls/ Personal Protection**

**8.1. Control parameters**

Occupational exposure limits - Sodium hypochlorite is not listed UK HSE EH40

In case of chlorine emission the occupational exposure limit for chlorine should be controlled.\*

Chlorine (CAS# 7782-50-5) Short-term exposure limit (15-min): 0.5 ppm and 1.5 mg/m<sup>3</sup>

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**Derived No Effect Level (DNEL) for sodium hypochlorite \***

Workers, Acute - systemic effects, Acute - local effects, Inhalation	: 3.1 mg/m3
Workers, Long-term - systemic effects, Long-term - local effects, Inhalation	: 1.55 mg/m3
Workers, Long-term - local effects, Skin contact	: 0.5 %
Consumers, Long-term - systemic effects, Long-term - local effects, Inhalation	: 1.55 mg/m3
Consumers, short-term, Inhalation	: 3.1 mg/m3
Consumers, Long-term - systemic effects, Ingestion	: 0.26mg/kg bw/day

\*According to suppliers SDS

**Biological limits \***

Fresh water	: 0.21 µg/l
Marine water	: 0.042 µg/l
Sewage treatment plant (STP)	: 0.03 mg/l
Intermittent releases	: 0.26 µg/l

\*According to suppliers SDS

**8.2. Exposure controls** - Provide adequate ventilation.

**Personal Protection**

Use personal protection equipment that is clean and has been properly maintained. Store in a clean place away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-use.

**Eye/face protection** - Avoid contact with face and eyes.

**Hand protection**

Avoid skin contact  
Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374  
Protective gloves must be selected according to the application and duration of use at the work station.

**Other skin and body protection**

Avoid skin contact  
Wear appropriate clothing to prevent repeated or prolonged skin contact.  
Remove and wash contaminated clothing before re-use.

**Respiratory protection**

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

**Environmental exposure controls** - No data available

**9. Physical and Chemical Properties**

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

Appearance:	Clear liquid.
Colour:	Colourless to pale yellow
Odour:	Characteristic Chlorine Odour.

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pH:	11.70 – 12.7
Melting point :	~0°C
Initial boiling point and range :	Around 102°C
Flash point:	Not available.
Evaporation rate:	Not available.
Evaporation factor:	Not available.
Flammability (solid, gas):	The product is not flammable.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure :	Not available.
Vapour density:	Not available.
Relative density:	1.0-1.06 @ 20°C
Bulk density:	Not available.
Solubility(ies):	Soluble in water.
Partition coefficient :	Not available.
Auto-ignition temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not explosive
Oxidising properties:	Not oxidizing

**9.2 Other Information** – No data available

## 10. Stability and Reactivity

**10.1. Reactivity** - See the other subsections of this section for further details.

**10.2. Chemical stability** - Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions** - Contact with acids will liberate chlorine.

Reacts with ammonia solutions and amines to form explosive compounds.

Can react violently if in contact with methanol.

Decomposition with evolution of oxygen is accelerated by light and heat and also by contact with many metals

Oxidising agent; may assist combustion.

When exposed to high temperatures, the mixture can release hazardous decomposition products and fumes.

In the event of a fire, the following may be formed:

- chlorine and chlorinated decomposition products

**10.4. Conditions to avoid** - Keep away from direct heat and sunlight. Avoid contact with other chemicals

**10.5. Incompatible materials** – Strong acids. Ammonia and amines. Methanol. Metals (particularly copper, nickel and iron)

**10.6. Hazardous decomposition products** -Thermal decomposition may release chlorine compounds and chlorinated decomposition products.

## 11. Toxicological Information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Information given is based on data of the components and of similar products

### Mixture

Acute toxicity – No data available

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Skin corrosion/irritation - Causes skin irritation.  
 Serious eye damage/ irritation - Causes serious eye irritation.  
 Respiratory sensitisation – No data available  
 Germ cell mutagenicity - No data available  
 Carcinogenicity – No data available  
 Reproductive toxicity – No data available  
 Specific target organ toxicity (single exposure) – No data available  
 Specific target organ toxicity (repeated exposure) – No data available  
 Aspiration hazard – No data available

**Toxicological information on substance, Sodium Hypochlorite**

Taken from suppliers SDS for active chlorine from sodium hypochlorite

Acute Oral Toxicity Rat (LD50 mg/kg) >1100

Acute Dermal Toxicity Rabbit (LD50 mg/kg) >20000

Acute Inhalation Toxicity Rat (LD50 mg/l) >10.5

Skin Corrosion/Irritation Human- Corrosive causes sever skin burns

Serious damage to eyes Rabbit - Risk of serious damage to eyes.

Respiratory or skin sensitisation - Maybe irritant to respiratory tract. Not Sensitising.

Germ cell mutagenicity - Not mutagenic

Carcinogenicity - Not carcinogenic

Reproductive Toxicity : No evidence of adverse effects on development or fertility.

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

Ingestion - If ingested will cause severe damage to gastrointestinal tract.

**11.2. Information on other hazards**

No known endocrine disrupting effects

**12. Ecological Information**

**12.1. Toxicity**

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

**Ecological data on substance Sodium Hypochlorite**

\*According to suppliers SDS

**Acute Toxicity**

Fish (Salmo gairdneri)	LC50, 96Hrs	0.06 mg/l
Fish (Menidia peninsulae)	NOEL, 96Hrs	0.04 mg/l
Daphnia magna	EC50, 48Hrs	0.141mg/l
Alga	NOEL, 7 days	0.0021 mg/l
Bacteria	EC50,3Hrs	>3mg/l

M Factor (Acute) = 10

**Chronic Toxicity**

Fish (Menidia peninsulae)	NOEC, 28 days	0.04 mg/l
Invertebrates (Eastern oyster)	NOEC, 15 days	0.007 mg/l

M Factor (Chronic) = 1

**12.2. Persistence and degradability**

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Sodium Hypochlorite can be degraded by abiotic (eg chemical and photolytic) processes.  
Sodium Hypochlorite solution is a strong oxidiser. It will react with organic substances present in soil and sediments which degrade rapidly to chloride. Sodium hypochlorite is substantially removed in biological treatment processes.

**12.3. Bioaccumulative potential** - Sodium hypochlorite has a low potential to bio accumulate and decomposes in water  
Calculated log Kow= - 3.42

**12.4 Mobility in soil** - Sodium hypochlorite is mobile in soil and sediment

**12.5 Results of PBT and vPvB assessment** – Sodium hypochlorite is not classified as PBT or vPvB

**12.6 Endocrine disrupting properties**

None known

**12.7 Other adverse effects**

None known

**13. Disposal Considerations**

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. Do not pour down drains or waterways.

**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** : 1791.

14.2. **UN proper shipping name**: HYPOCHLORITE SOLUTION.

14.3. **Transport hazard class(es)**:



14.4. **Packing group**: III

14.5. **Environmental hazards**:

Environmentally hazardous substance/marine pollutant: Yes



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**

**Classification and labelling information**

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- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 and its adaptations

**15.2 Chemical safety assessment** - No Chemical Safety Assessment has been carried out.

**16. Other Information**

**Revision Comments .**

Update Hazard descriptions

**Revision Date** 06/03/2023

**Revision** 09.

**Hazard Statements In Full**

H290 May be corrosive to metals

H314 Causes severe burns and eye damage

H315 Causes skin irritation.

H318 Causes serious eye damage

H319 Causes serious eye irritation

H400 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH031 Contact with acids liberates toxic gas.

**Disclaimer**

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