

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

1. Identification of the substance/ mixture and of the company/undertaking	
<b>1.1 Product</b>	Dr Johnson's Mosquito Repellent Gel -Liquid product -Product does not contain any nanomaterials
<b>1.2 Use of the preparation</b>	Repellent for Insects to be used on the human body - Biocidal product. Product Type 19
<b>1.3 Company</b>	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>
<b>1.4 Emergency Telephone</b>	(0161) 231 6111
2. Hazards Identification	
<b>2.1 Classification of the substance or mixture</b>	<u>Classification:</u> Mixture  Physical Hazards - Not Classified Health Hazards - Not Classified Environmental Hazards- Not Classified
<b>2.2 Label elements - Pictogram</b>	Signal word - Not required Hazard statements – Not Required Precautionary statements – Not Required
<b>2.3 Other hazards</b>	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"
3. Composition/ Information on Ingredients	
<b>3.1 Mixture</b>	– No data available
<b>3.2 Ingredients</b>	Aqua, Alcohol Denat., Methanediol (Eucalyptus Citriodora Oil Hydrated, cyclized), Cyclopentasiloxane, Dipropylene Glycol, Carbomer, Polysorbate-20, Sodium Hydroxide, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Cymbopogon Flexuosus (Lemongrass) Oil, Cymbopogon Winterianus Herb (Citronella) Oil, Lavandula Angustifolia (Lavender) Oil, Eucalyptus Globulus Leaf (Eucalyptus) Oil, Disodium EDTA, Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben, Citral, Citronellol, Coumarin, Geraniol, Limonene, Linalool.
<b>Mixture of Cis- and Trans-p-methane-3,8 diol</b>	<b>1.0 - &lt;5.0%</b>
<b>CAS no:</b> 1245629-80-4	
<b>EC no:</b>	
<b>Classification</b>	
Eye Irrit. 2 – H319	
<b>Acrylates/C10-30 Alkyl Acrylate Crosspolymer</b>	<b>0.01 0.50%</b>
<b>CAS no:</b>	
<b>EC no:</b>	

## Dr Johnson's Mosquito Repellent Gel

### Safety Data Sheet

<b>Classification</b> Aquatic Chronic 3; H412	
<b>Disodium Dihydrogen Ethylenediamine Tetraacetate</b> CAS no: 139-33-3 EC no: 205-358-3	0.1 – 1.0%
<b>Classification</b> Acute Tox. 4: H332 STOT RE 2 - H373	
<b>Cymbopogon Winterianus Herb Oil</b> CAS no: 91771-61-8 EC no: 294-954-7	0.01 -0.50%
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>Lavandula Angustifolia Flower Oil</b> CAS no: 8000-28-0 EC no: 289-995-2	0.01 -0.50%
<b>Classification</b> Aspir.1- H304 Skin Irrit. 2 - H315 Eye Irrit. 2 – H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>Sodium Hydroxide 50%</b> CAS no: 1310-73-2 EC no: 215-185-5	0.01- 0.50%
<b>Classification</b> Skin Corr. 1A - H314 Corrosive to metals: H290	
<b>2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate</b> CAS no: EC no:	0.1- 1.00%
<b>Classification</b> Eye Irrit. 2 – H319 Acute Tox 4.-H302	
<b>ethanol; ethyl alcohol</b> CAS no: 64-17-5 EC no: 200-578-6	5.0 – 15.0%
<b>Classification</b> Flam Liq. Cat2 – H225	

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

<b>Eucalyptus Globulus Leaf Oil</b> <span style="float: right;"><b>0.01- 0.50%</b></span> <b>CAS no: 8000-48-4 /84625-32-1</b> <b>EC no: 283-406-2</b>
<b>Classification</b> Flam Liq. Cat3– H226 Aspir.1- H304 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
<b>Cymbopogon Flexuosus Oil</b> <span style="float: right;"><b>0.01 – 0.5%</b></span> <b>CAS no: 91844-92-7</b> <b>EC no: 295-161-9</b>
<b>Classification</b> Asp. Tox. 1: H304 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
<b>4. First Aid Measures</b>
<b>4.1. Description of first aid measures</b> 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. <b>4.2. Most important symptoms and effects, both acute and delayed – no data available</b> <b>4.3. Indication of any immediate medical attention and special treatment needed - Treat symptomatically</b>
<b>5. Fire Fighting Measures</b>
<b>5.1. Extinguishing media</b> Extinguishing media- Use fire-extinguishing media appropriate for surrounding materials. <b>5.2. Special hazards arising from the substance or mixture</b> Specific hazards - No specific firefighting precautions applicable when small quantities are involved in the fire. <b>Hazardous combustion products:</b> No data available <b>5.3. Advice for firefighters - No data available</b>
<b>6. Accidental Release Measures</b>
<b>6.1. Personal precautions, protective equipment and emergency procedures – see sections 7 and 8</b> <b>6.2. Environmental precautions</b> Large Spillages - Do not discharge into drains or watercourses or onto the ground. Contain with inert absorbent materials <b>6.3. Methods and material for containment and cleaning up</b> Take care as floors and other surfaces may become slippery. Wear protective clothing. Large spillages absorb with inert absorbent material and collect mechanically. <b>6.4. Reference to other sections - See Section 11, 12 and 13</b>

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

**7. Handling and Storage**

**7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations on label

Always wear protective gloves and eye wear

Remove and wash contaminated clothing before re-use

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 - No data available

Biological limits – No data available

**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.

Type of glove recommended – Natural latex

**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: Semi opaque gel.

Colour: White

Odour: Characteristic

pH: 6.0 – 7.0

Melting point : ~0°C

Initial boiling point and range : 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: 0.84 – 0.92 @ 20°C

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

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** - Stable at normal ambient temperatures and when used as recommended

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

**10.5. Incompatible materials** – Stable at normal ambient temperatures and when used as recommended

**10.6. Hazardous decomposition products** - Stable at normal ambient temperatures and when used as recommended

**11. Toxicological Information**

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

Mixture – No data available

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

**Mixture of Cis- and Trans-p-methane-3,8 diol**

Acute Oral Toxicity Rat (LD50 mg/kg) 2408

Acute Dermal Toxicity Rat (LD50 mg/kg) >2000

**Acrylates/C10-30 Alkyl Acrylate Crosspolymer**

Acute Oral Toxicity Rat (LD50 mg/kg) Not classified for acute toxicity on available data

Acute Dermal Toxicity Rat (LD50 mg/kg) Not classified for acute toxicity on available data

Respiratory - Avoid inhalation of dust. Animal studies indicate the inhalation of respirable polyacrylate dust may cause inflammatory changes in the lung. Persons with sensitive airways (e.g., asthmatics) may react to vapours. Breathing of dust may cause coughing, mucous production, and shortness of breath.

Not classified for acute toxicity based on available data.

Reproductive toxicity: No data available

**Disodium Dihydrogen Ethylenediamine Tetraacetate**

Acute Oral Toxicity Rat (LD50 mg/kg) 2800

Acute toxicity (ac. tox. 4) Inhalation Hazardous: calculated

ATE inhalation (dusts/mists mg/l) 1.51

**Cymbopogon Winterianus Herb Oil**

Skin Contact - Potential irritant, may cause sensitisation by skin contact.

Eye Contact - Spray and vapour in the eyes may cause irritation and smarting.

**Lavandula Angustifolia Flower Oil**

Ingestion : > 5000 mg/kg

Skin Contact: > 5000 mg/kg

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

Eye Contact : Eye damage /irritation Category 2  
Inhalation: No data

**Sodium Hydroxide**

**Acute Oral Toxicity**

Will immediately cause corrosion of and damage to the gastrointestinal tract.

**Acute Dermal Toxicity**

Corrosive. May cause severe burns with permanent skin damage which are slow to heal. Repeated or prolonged contact to dilute solutions may cause dermatitis

**2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate**

Acute Oral Toxicity ATE (LD50 mg/kg) > 1936 (calculated)

Acute Dermal Toxicity ATE (LD50 mg/kg) >2000 (calculated)

Serious eye damage/irritation: Eye irritation Category 2

**Ethanol; ethyl alcohol**

Acute toxicity Based on available data, the classification criteria are not met.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation- Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met

**Eucalyptus Globulus Leaf Oil**

Acute Oral Toxicity: LD50 3,320.00 (REACH) / 4,440.00 (IFRA) mg/kg

Acute Dermal Toxicity: LD50 >5,000.00 mg/kg.

Skin corrosion / irritation: Irritating to skin.

Serious eye damage/irritation: Not classified

**Cymbopogon Flexuosus Oil**

Acute Oral : Not classified

Skin corrosion / irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

**11.2. Information on other hazards**

No known endocrine disrupting effects

**12. Ecological Information**

**12.1. Toxicity**

Mixture – No data available

Ecological Information on ingredients – Taken from suppliers data

**Mixture of Cis- and Trans-p-methane-3,8 diol**

<i>Danio rerio</i> ( Fish)	EC50, 96Hrs	>35mg/l
<i>Daphnia magna</i>	EC50, 48Hrs	>26mg/l
<i>Pseudokirchneriella</i> (Algae)	EC50, 72Hrs	>37mg/l

**Acrylates/C10-30 Alkyl Acrylate Crosspolymer** - No data available

**Disodium Dihydrogen Ethylenediamine Tetraacetate**

Lepomis macrochirus (Bluegill)	LC <sub>50</sub> , 96 hours:	41 mg/l,
Oncorhynchus mykiss (Rainbow trout)	LC <sub>100</sub> , 24 hours:	860 mg/l,

**Dr Johnson's Mosquito Repellent Gel**  
**Safety Data Sheet**

Brachydanio rerio (Zebra Fish)	NOEC, 35 days:	25.7 mg/l,
Daphnia magna	EC <sub>50</sub> , 48 hours:	140 mg/l,
Pseudokirchneriella subcapitata (Algae)	EC <sub>50</sub> , 72 hours:	>100 mg/l,

<b>Cymbopogon Winterianus Herb Oil –</b>		
Daphnia	LC50 48 hour:	26.40 mg/l

**Lavandula Angustifolia Flower Oil** - Hazardous to the aquatic environment

**Sodium Hydroxide**

No reliable data available. Concentrations greater than 10ppm, especially in fresh water, or a pH value equal to or greater than 10.5 may be fatal to fish and other aquatic organisms. Can cause damage to aquatic plants. Can cause damage to vegetation

**2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate**

Based on the available data the classification criteria for hazard classes aquatic acute (short term)

toxicity are not fulfilled.

Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled

**Ethanol; ethyl alcohol**

Fish Leuciscus idus	LC50	8150 mg/l
Daphnia	EC50, 48Hrs	9268 – 14,221mg/l
Algae scenedesmus quadricauda	EC0, 168hrs	5000 mg/l
Bacteria Pseudomonas putida	EC0	6500mg/l

**Eucalyptus Globulus Leaf Oil** – No data

**Cymbopogon Flexuosus Oil** - Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

Mixture – No data

Persistence and degradability on ingredients – taken from suppliers data

**Mixture of Cis- and Trans-p-methane-3,8 diol** – readily biodegradable

**Acrylates/C10-30 Alkyl Acrylate Crosspolymer**- No data available

**Disodium Dihydrogen Ethylenediamine Tetraacetate** – Not readily biodegradable

**Cymbopogon Winterianus Herb Oil** -Regarded as readily biodegradable.

**Lavandula Angustifolia Flower Oil** – No data

**Sodium Hydroxide** – Sodium hydroxide is highly soluble in water and has a low vapour pressure. It will be found predominantly in the aquatic environment. It degrades readily by reaction with the natural carbon dioxide in the air.

**2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate** --Components are rapidly degradable

**Ethanol; ethyl alcohol** – Readily biodegradable

**Eucalyptus Globulus Leaf Oil** – Readily biodegradable

**Cymbopogon Flexuosus Oil** – No data

**12.3. Bioaccumulative potential**

Mixture – No data

Bioaccumulative potential on ingredients – taken from suppliers data

**Dr Johnson's Mosquito Repellent Gel  
Safety Data Sheet**

**Mixture of Cis- and Trans-p-methane-3,8 diol** – Unlikely

**Acrylates/C10-30 Alkyl Acrylate Crosspolymer** - No data available

**Disodium Dihydrogen Ethylenediamine Tetraacetate** – No potential for bioaccumulation.

Partition coefficient log Pow: -4.3

**Cymbopogon Winterianus Herb Oil** – No data

**Lavandula Angustifolia Flower Oil** – No data

**Sodium Hydroxide** – Does not bioaccumulate

**2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate** – Not worth-mentioning accumulating in organisms

**ethanol; ethyl alcohol** – No data

**Eucalyptus Globulus Leaf Oil** – Low potential for bioaccumulation

**Cymbopogon Flexuosus Oil** – No data

**12.4 Mobility in soil**

Mixture – No data

Mobility in Soil on ingredients – Taken from supplier data

**Mixture of Cis- and Trans-p-methane-3,8 diol** –No data

**Acrylates/C10-30 Alkyl Acrylate Crosspolymer** – No data

**Disodium Dihydrogen Ethylenediamine Tetraacetate** – Water soluble

**Cymbopogon Winterianus Herb Oil** – No data

**Lavandula Angustifolia Flower Oil** – No data

**Sodium Hydroxide** – mobile in water

**2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate** - No data

**Ethanol; ethyl alcohol** - No data

**Eucalyptus Globulus Leaf Oil** – No data

**Cymbopogon Flexuosus Oil** – No data

**12.5 Results of PBT and vPvB assessment** – Mixture and ingredients are 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 - 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**: None

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



## Dr Johnson's Mosquito Repellent Gel Safety Data Sheet

**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

- EH40/2005
- Regulation 2009 (SI 2009 No. 716)

#### EU legislation

- 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
- Directive 1999/45/EC Amended
- Directive 67/548/EEC

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

### 16. Other Information

**Revision Comments** Reviewed SDSs of component ingredients updated where changes had occurred. Update Sections 11 & 12 subsection titles to meet Regulation 2020/878

**Revision Date** 07/11/2022

#### Revision 2

#### Hazard Statements In Full

H290: May be corrosive to metals  
H225 Highly flammable liquid and vapour  
H226 Flammable liquid and vapor  
H302 Harmful if swallowed.  
H304: May be fatal if swallowed.  
H314: Causes severe skin burns and eye damage  
H315: Causes skin irritation..  
H317: May cause an allergic skin reaction  
H318 :Causes serious eye damage  
H319: Causes serious eye irritation  
H332: Harmful if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H401: Toxic to aquatic life.  
H411 :Toxic to aquatic life with long lasting effects  
H412: Harmful to aquatic life with long lasting effects

#### Disclaimer

The information contained in this data sheet is, to the best of our knowledge and belief, accurate and is based upon our technical knowledge of the product and the date of issue. No warranty or representation, express or implied, is made as to its accuracy, reliability or completeness. MPM Consumer Products Ltd will not be responsible for any damage or injury resulting from any inherent hazard of the material, the abnormal use of the material or from failure to adhere to recommendation