

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

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

1.1 Product Dr Johnson's Mosquito Repellent Gel
1.2 Use of the preparation Repellent for Insects to be used on the human body - Biocidal product. Product Type 19
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

2. Hazards Identification

2.1 Classification of the substance or mixture

Physical Hazards - Not Classified
 Health Hazards - Not Classified
 Environmental Hazards- Not Classified

2.2 Label elements - Pictogram

Signal word - Not required
 Hazard statements – Not Required
 Precautionary statements – Not Required

2.3 Other hazards

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

3.1 Mixture – No data available

3.2 Ingredients

Mixture of Cis- and Trans-p-methane-3,8 diol	1.0 - <5.0%
CAS no:	
EC no:	
Classification	
Eye Irrit. 2 – H319	
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.01 0.50%
CAS no:	
EC no:	
Classification	
Aquatic Chronic 3; H412	
Disodium Dihydrogen Ethylenediamine Tetraacetate	0.1 – 1.0%
CAS no: 139-33-3	
EC no: 205-358-3	
Classification	
Acute Tox. 4: H332	

Dr Johnson's Mosquito Repellent Gel
Safety Data Sheet

Cymbopogon Winterianus Herb Oil CAS no: 91771-61-8 EC no: 294-954-7	0.01 0.50%
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Acute 2 - H401 Aquatic Chronic 2 - H411	
Lavandula Angustifolia Flower Oil CAS no: 8000-28-0 EC no: 289-995-2	0.01 0.50%
Classification Aspir.1- H304 Skin Irrit. 2 - H315 Eye Irrit. 2 – H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
Sodium Hydroxide 50% CAS no: 1310-73-2 EC no: 215-185-5	0.01- 0.50%
Classification Skin Corr. 1A - H314 Corrosive	
2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, Butyl 4-hydroxybenzoate CAS no: EC no:	0.1- 1.00%
Classification Eye Irrit. 2 – H319	
ethanol; ethyl alcohol CAS no: 64-17-5 EC no: 200-578-6	5.0 – 15.0%
Classification Flam Liq. Cat2 – H225	
Eucalyptus Globulus Leaf Oil CAS no: 8000-48-4 /84625-32-1 EC no: 283-406-2	0.01- 0.50%
Classification Flam Liq. Cat3– H226 Aspir.1- H304 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	

Dr Johnson's Mosquito Repellent Gel

Safety Data Sheet

Cymbopogon Citratus Leaf Oil 0.01 – 0.5% CAS no: 89998-14-1 EC no: 289-752-0
Classification Skin Irrit.2 - H315 Eye Dam.1 – H318 Skin Sens.1 – H317 Aquatic Chronic 2 – H411
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 Extinguishing media- Use fire-extinguishing media appropriate for surrounding materials. 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: No data available 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. Wear protective clothing. Large spillages absorb with inert absorbent material and collect mechanically. 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 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

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

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
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

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

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 toxicological effects

Mixture – No data available
 Toxicological information on ingredients - Taken from suppliers data

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

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

Acute Oral Toxicity Rat (LD50 mg/kg) >10,000
 Acute Dermal Toxicity Rat (LD50 mg/kg) >5000
 Respiratory -Avoid inhalation of dust. Animal studies indicate the inhalation of respirable polyacrylate dust may cause inflammatory changes in the lung.
 Reproductive toxicity: Toxic to Reproduction Category 2

Disodium Dihydrogen Ethylenediamine Tetraacetate

Acute Oral Toxicity Rat (LD50 mg/kg) >2000
 Acute toxicity (ac. tox. 4) INH Hazardous: calculated
 Skin contact: There may be irritation and redness at the site of contact.
 Eye contact: There may be irritation and redness. The eyes may water profusely.
 Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting.
 Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Cymbopogon Winterianus Herb Oil

Toxicological Information - Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
 Inhalation- In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
 Ingestion - May cause discomfort if swallowed.
 Skin Contact - May cause sensitisation by skin contact.
 Eye Contact - Spray and vapour in the eyes may cause irritation and smarting.
 Acute Oral Toxicity Rat (LD50) 7200mg/kg
 Actue Dermal Toxicity Rabbit (LD50) 4700mg/kg

Lavandula Angustifolia Flower Oil

Skin corrosion / irritation: Skin irritation Category 2
 Serious eye damage/irritation: Eye irritation Category 2
 Respiratory or skin sensitisation: Skin sensitisation Category 1B

Sodium Hydroxide

Very corrosive (Rabbit) (No guideline followed)

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

Acute Oral Toxicity Rat (LD50 mg/kg) 2400
 Acute Dermal Toxicity Rat (LD50 mg/kg) >2000
 Serious eye damage/irritation: Eye irritation Category 2

Dr Johnson's Mosquito Repellent Gel
Safety Data Sheet

ethanol; ethyl alcohol

Acute Oral Toxicity Rat (LD50 mg/kg) 6200
Acute Inhalation Toxicity Rat (LD50 4hrs mg/L) 124.7
Skin Contact – Prolonged or repeated skin contact may result in dermatitis.
Eyes Contact - Splashes in eyes may cause strong pain. Vapour acts irritant.

Eucalyptus Globulus Leaf Oil

Acute Oral Toxicity Rat (LD50 mg/kg) 2480
Acute Dermal Toxicity Rabbit (LD50 mg/kg) 2480
Skin corrosion / irritation: Skin Rabbit 500mg / 24Hrs
Serious eye damage/irritation: Eye irritation Category 2
Respiratory or skin sensitisation: Skin sensitisation Category 1
Aspiration – Category 1

Cymbopogon Citratus Leaf Oil

Acute Oral Toxicity Rat (LD50 mg/kg) Dose 1 4400, Dose 2 >2000
Skin corrosion / irritation: May cause skin sensitisation by contact
Serious eye damage/irritation: May cause irritation

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

Daphnia	EC50, 48Hrs	>26mg/l
Pseudokirchneriella	EC50, 72Hrs	>72mg/l

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

Freshwater fish	LC50	100-1000mg/L
Freshwater invertebrates	EC50	10-100mg/L

Disodium Dihydrogen Ethylenediamine Tetraacetate

Fish	LC50, 96Hrs	>500 mg/l
------	-------------	-----------

Cymbopogon Winterianus Herb Oil – No data

Lavandula Angustifolia Flower Oil - Hazardous to the aquatic environment – Chronic hazard Category 2 (Aquatic Chronic 2).

Sodium Hydroxide

Fish Gambusia affinis	LC50, 96Hrs	125 mg/l
Fish Poecilia reticulata	LC50, 25Hrs	145mg/L
Daphnia	EC50, 48Hrs	40.4 mg/l
Photobacterium phosphoreum	EC50, 15mins	22 mg/l

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

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

Dr Johnson's Mosquito Repellent Gel
Safety Data Sheet

Eucalyptus Globulus Leaf Oil – No data

Cymbopogon Citratus Leaf Oil - Dangerous for the environment: May cause long-term adverse effects in the aquatic environment

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

Cyclohexane From 0.1 to 0.9 percent Manometric Respirometry 28 77

Cyclohexane From 0.1 to 0.9 percent Miscellaneous-Degradation 28 9

Acrylic acid From 0.1 to 0.9 percent Closed Bottle 28 80

Disodium Dihydrogen Ethylenediamine Tetraacetate – No data

Cymbopogon Winterianus Herb Oil – No data

Lavandula Angustifolia Flower Oil – No data

Sodium Hydroxide – No data

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

ethanol; ethyl alcohol – Readily biodegradable

Eucalyptus Globulus Leaf Oil – No data

Cymbopogon Citratus Leaf Oil – No data

12.3. Bioaccumulative potential

Mixture – No data

Bioaccumulative potential on ingredients – taken from suppliers data

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

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

Cyclohexane From 0.1 to 0.9 percent Octanol-Water Coefficient 0.1 3.4

Acrylic acid From 0.1 to 0.9 percent Octanol-Water Coefficient 0.1 0.5

Disodium Dihydrogen Ethylenediamine Tetraacetate – No data

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 – No data

ethanol; ethyl alcohol – No data

Eucalyptus Globulus Leaf Oil – No data

Cymbopogon Citratus Leaf 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

Dr Johnson's Mosquito Repellent Gel Safety Data Sheet

Eucalyptus Globulus Leaf Oil – No data
Cymbopogon Citratus Leaf Oil - – No data

12.5 Results of PBT and vPvB assessment – Mixture and ingredients are not classified as PBT or vPvB

12.6 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.

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

- 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 First Issue

Revision Date First Issue

Revision 0

Hazard Statements In Full n/a

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