

**Dr J's Natural Insect Repellent Spray
Safety Data Sheet**

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

1.1 Product Dr J's Natural Insect Repellent Spray
-Liquid product
-Product does not contain any nanomaterials

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 – Flammable
Do not store above 50°C
Keep out of reach of children
Avoid contact with eyes
If this should occur rinse well with clean water warm water
Not suitable for Children under 2 years

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.

3.1 Mixture – No data available

3.2 Ingredients

Aqua, Alcohol Denat., Methanediol (Eucalyptus Citriodora Oil Hydrated, cyclized), Cyclopentasiloxane, Dipropylene Glycol, Polysorbate-20, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Cymbopogon Flexuosus (Lemongrass) Oil, Cymbopogon Winterianus Herb (Citronella) Oil, Eucalyptus Globulus Leaf (Eucalyptus) Oil, Lavandula Angustifolia (Lavender) Oil, Disodium EDTA, Sodium Hydroxide, Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben, Citral, Citronellol, Coumarin, Geraniol, Limonene, Linalool.

Mixture of Cis- and Trans-p-menthane-3,8 diol	1.0 - <5.0%
CAS no: 1245629-80-4	
EC no:	
Classification	
Eye Irrit. 2 – H319	
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.01-0.50%

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CAS no: EC no:	
Classification Aquatic Chronic 3; H412	
Disodium Dihydrogen Ethylenediamine Tetraacetate CAS no: 139-33-3 EC no: 205-358-3	0.1 – 1.0%
Classification Acute Tox. 4: H332 STOT RE 2: H373	
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 Aquatic Chronic 2 - H411	
Lavandula Angustifolia Flower Oil CAS no: 8000-28-0 EC no: 289-995-2	0.01- 0.50%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 – H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
Sodium Hydroxide CAS no: 1310-73-2 EC no: 215-185-5	0.01- 0.50%
Classification Skin Corr. 1A - H314 Corrosive to metals: H290	
2-phenoxyethanol, Ethyl 4-hydroxybenzoate, Methyl 4-hydroxybenzoate, Propyl 4-hydroxybenzoate, CAS no: mixture EC no: mixture	0.1- 1.00%
Classification Eye Irrit. 2 – H318 Acute Tox 4.-H302 Aquatic Chronic 3 -H412	
ethanol; ethyl alcohol CAS no: 64-17-5 EC no: 200-578-6	5.0 – 15.0%
Classification	

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Flam Liq. Cat2 – H225
 Eye Irrit. 2 – H319

Eucalyptus Globulus Leaf Oil	0.01- 0.50%
CAS no: 8000-48-4 /84625-32-1	
EC no: 283-406-2	

Classification

Flam Liq. Cat3– H226
 Aspir.1- H304
 Skin Irrit. 2 - H315
 Skin Sens. 1 - H317
 Aquatic Chronic 2 - H411

Cymbopogon Flexuosus Oil	0.01 – 0.5%
CAS no: 91844-92-7	
EC no: 295-161-9	

Classification

Asp. Tox. 1: H304
 Skin Irrit. 2 - H315
 Eye Dam. 1 - H318
 Skin Sens. 1 - H317
 Aquatic Chronic 2 - H411

The full text for all H-phrases is 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. 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

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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

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 (Citronella)
 pH: 6.0 – 7.5
 Melting point : ~0°C
 Initial boiling point and range : 102°C

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Flash point:	Not available.
Evaporation rate:	Not available.
Evaporation factor:	Not available.
Flammability (solid, gas):	Product is potentially flammable.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure :	Not available.
Vapour density:	Not available.
Relative density:	0.95 – 1.00 @ 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 - 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

Toxicological information on ingredients - Taken from suppliers data

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

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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

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

Acute Oral Toxicity ATE (LD50 mg/kg) 1900 (calculated)

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

Serious eye damage/irritation: Causes serious eye damage

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 mg/kg

Acute Dermal Toxicity: LD50 >5,000 mg/kg.

Skin corrosion / irritation: Irritating to skin.

Serious eye damage/irritation: Not classified.

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

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

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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

Fish (Fathead Minnow)	LC50, 4.5mg/l
<i>Daphnia magna</i>	EC50 0.9mg/l
Algae (<i>Selenastrum capricornutum</i>)	9.317 mg/l

Disodium Dihydrogen Ethylenediamine Tetraacetate

<i>Lepomis macrochirus</i> (Bluegill)	LC ₅₀ , 96 hours:	41 mg/l,
<i>Oncorhynchus mykiss</i> (Rainbow trout)	LC ₁₀₀ , 24 hours:	860 mg/l,
<i>Brachydanio rerio</i> (Zebra Fish)	NOEC, 35 days:	25.7 mg/l,
<i>Daphnia magna</i>	EC ₅₀ , 48 hours:	140 mg/l,
<i>Pseudokirchneriella subcapitata</i> (Algae)	EC ₅₀ , 72 hours:	>100 mg/l,

Cymbopogon Winterianus Herb Oil –

<i>Daphnia</i>	LC50 48 hour:	26.40 mg/l
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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

Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.

Harmful to aquatic life with long lasting effects.

Ethanol; ethyl alcohol: No data

Eucalyptus Globulus Leaf Oil – Toxic to aquatic life with long lasting effects

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 - Not readily biodegradable

Disodium Dihydrogen Ethylenediamine Tetraacetate – Not readily biodegradable

Cymbopogon Winterianus Herb Oil -Regarded as readily biodegradable.

Lavandula Angustifolia Flower Oil – No data

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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, -Components are rapidly degradable

Ethanol; ethyl alcohol – Readily biodegradable

Eucalyptus Globulus Leaf Oil – No data

Cymbopogon Flexuosus 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 - 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,– 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, - No data

Ethanol; ethyl alcohol - No data

Eucalyptus Globulus Leaf Oil – No data

Cymbopogon Flexuosus Oil - - No data

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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.

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 Update Physical Properties (section 9)

Revision Date 18/06/2024

Revision 5

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

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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