

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

| | |
|-----------------|---|
| Product form | : Mixture |
| Product name | : FOREST FRESH DEODORISER DISINFECTANT |
| Product code | : BE059-5 |
| Type of product | : Biocidal products (e.g. Disinfectants, pest control), Detergent |
| Product group | : Mixture |

1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses

| | |
|----------------------------------|---|
| Main use category | : Professional use |
| Industrial/Professional use spec | : Industrial For professional use only |
| Use of the substance/mixture | : Cleaner Disinfectant |

1.3. Details of the supplier of the safety data sheet
Supplier

Jangro Limited
Parklands 1A, 3rd Floor
BL6 4SD Lostock Bolton
T 01204 795 955
enquiries@jangrohq.net

Supplier

Jangro (Europe) Limited
6-9 Trinity Street
D02 EY47 Dublin 2
Ireland
T 01617 7911

1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|--------------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|--|------|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

| | |
|--------------------------------|--|
| Signal word (CLP) | : Danger |
| Contains | : Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides; C9-C11 alcohol, ethoxylated |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P102 - Keep out of reach of children. P264 - Wash hands thoroughly after handling. |

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P280 - Wear eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
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.
P362+P364 - Take off contaminated clothing and wash it before reuse.

EUH-statements

: EUH208 - Contains Pine Oil. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|---|--|
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1), Pine Oil (8002-09-3) |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides | CAS-no: 68424-85-1 EC-No.: 270-325-2 | 2.4 | Acute Tox. 4 (Oral), H302 (ATE=795 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) |
| C9-C11 alcohol, ethoxylated | CAS-no: 68439-46-3 | 1 – 3 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 |
| Pine Oil | CAS-no: 8002-09-3 REACH-no: 01-2119553062-49 | 0.1 – 1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

: Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact

: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get immediate medical advice/attention.

Ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects skin

: Causes skin irritation.

Acute effects eyes

: Causes serious eye damage. Redness.

Acute effects oral route

: May cause irritation to the digestive tract.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Water. Water spray. Carbon dioxide. Dry powder.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Packaging materials : polyethylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Skin protection

Hand protection:

Wear protective gloves. PVC gloves. Nitrile rubber gloves. neoprene gloves

Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : Green. |
| Physical state/form | : Liquid. |
| Odour | : Pine. Fresh. |
| Odour threshold | : Not available |
| Melting point/range | : 0 °C |
| Freezing point | : Not determined as it is not relevant for the characterization of the product |
| Boiling point/Boiling range | : 100 °C |
| Flammability | : Not determined as it is not relevant for the characterization of the product Non flammable. |
| Lower explosion limit | : Constituents do not contain chemical groups associated with explosivity |
| Upper explosion limit | : Constituents do not contain chemical groups associated with explosivity |
| Flash point | : Not determined as it is not relevant for the characterization of the product |
| Autoignition temperature | : Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required. |
| Decomposition temperature | : Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose. |
| pH | : 6 – 7.5 |
| Viscosity, kinematic | : Not available |
| Viscosity, dynamic | : < 20 cP at 20 °C |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 1 g/cm³ |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|-----------------------------|--------------|
| LD50 oral rat | 795 mg/kg |
| Pine Oil (8002-09-3) | |
| LD50 oral rat | > 3200 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

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C9-C11 alcohol, ethoxylated (68439-46-3)

| | |
|---------------------------|--|
| LD50 oral rat | > 300 (≤ 2000) mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. pH: 6 – 7.5 |
| Additional information | : Based on available data, the classification criteria are not met |

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|----|-------|
| pH | 6 – 9 |
|----|-------|

C9-C11 alcohol, ethoxylated (68439-46-3)

| | |
|-------------------------------|---|
| pH | 5 – 8 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 6 – 7.5 |

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|----|-------|
| pH | 6 – 9 |
|----|-------|

C9-C11 alcohol, ethoxylated (68439-46-3)

| | |
|-----------------------------------|--|
| pH | 5 – 8 |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-single exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|----------------------|--------------------------------------|
| Viscosity, kinematic | 131.055 – 133.744 mm ² /s |
|----------------------|--------------------------------------|

11.2. Information on other hazards

Other information

| | |
|---|--|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met |
|---|--|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - water | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|------------------------|------------|
| LC50 - Fish [1] | 0.85 mg/l |
| EC50 - Crustacea [1] | 0.016 mg/l |
| EC50 72h - Algae [1] | 0.02 mg/l |
| NOEC chronic crustacea | 0.025 mg/l |

Pine Oil (8002-09-3)

| | |
|-----------------|--------------|
| LC50 - Fish [1] | 68 – 80 mg/l |
|-----------------|--------------|

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Pine Oil (8002-09-3)

| | |
|----------------------|---------|
| EC50 - Crustacea [1] | 73 mg/l |
| EC50 72h - Algae [1] | 68 mg/l |

C9-C11 alcohol, ethoxylated (68439-46-3)

| | |
|----------------------|-------------|
| LC50 - Fish [1] | 1 – 10 mg/l |
| EC50 - Crustacea [1] | 1 – 10 mg/l |

12.2. Persistence and degradability

FOREST FRESH DEODORISER DISINFECTANT

| | |
|-------------------------------|---|
| Persistence and degradability | Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
|-------------------------------|---|

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
| Biodegradation | > 90 % |

Pine Oil (8002-09-3)

| | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

C9-C11 alcohol, ethoxylated (68439-46-3)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
| Biodegradation | ≥ 90 % |

12.3. Bioaccumulative potential

FOREST FRESH DEODORISER DISINFECTANT

| | |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|---|---------------------|
| Partition coefficient n-octanol/water (Log Kow) | 2.88 |
| Bioaccumulative potential | No bioaccumulation. |

Pine Oil (8002-09-3)

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

FOREST FRESH DEODORISER DISINFECTANT

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

| | |
|---|--|
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1), Pine Oil (8002-09-3) |
|---|--|

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

FOREST FRESH DEODORISER DISINFECTANT

| | |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |
|-------------------|-----------------------------------|

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

| | |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |
|-------------------|-----------------------------------|

Pine Oil (8002-09-3)

| | |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |
|-------------------|-----------------------------------|

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Waste / unused products | : Avoid release to the environment. |
| HP Code | : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|---------------|---------------|
| 14.1. UN number or ID number | | |
| Not regulated for transport | | |
| 14.2. UN proper shipping name | | |
| Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | |
| Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | |
| Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | |
| Not regulated | Not regulated | Not regulated |
| No supplementary information available | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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Detergent Regulation (EC 648/2004)

| Labelling of contents | |
|------------------------------------|-----|
| Component | % |
| non-ionic surfactants | <5% |
| disinfectants | |
| perfumes | |
| (R)-p-mentha-1,8-diene; d-limonene | |

Fragrance allergens > 0.01%:

(R)-p-mentha-1,8-diene; d-limonene

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources

: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | 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. |
| EUH208 | Contains Pine Oil. May produce an allergic reaction. |

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|--------------------|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.