1. PRODUCT AND COMPANY IDENTIFICATION

Product information

|  |  |  |
| --- | --- | --- |
| **Product name** | **:** | OFF! Botanicals Lotion |
| **Recommended use** | : | Insect Repellent |
| **Manufacturer, importer, supplier** | : | SC Johnson Ltd  Unit 2101, 21/F , Tower 2  Metroplaza  223 Hing Fong Rd  Kwai Fong |

|  |  |  |
| --- | --- | --- |
| **Telephone** | : | +85285225755655 |

|  |  |  |
| --- | --- | --- |
| **Emergency telephone number** | : | Consumer Care Center: 080-022-2701 |

2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

|  |  |  |
| --- | --- | --- |
| **Hazard classification** | **Hazard category** | **Hazards identification** |
| Skin irritation | Category 3 | Causes mild skin irritation. | |
| Serious eye damage | Category 2B | Causes eye irritation. | |

**Labelling**

**Hazard statements**

(H316) Causes mild skin irritation.

(H320) Causes eye irritation.

**Precautionary statements**

(P101) If medical advice is needed, have product container or label at hand.

(P102) Keep out of reach of children.

(P103) Read label before use.

(P101) If skin irritation occurs: Get medical advice/ attention.

(P102) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(P103) If eye irritation persists: Get medical advice/ attention.

(P264) Wash hands thoroughly after handling.

|  |  |  |
| --- | --- | --- |
| **Other hazards** | : | None identified |

3. COMPOSITION/INFORMATION ON INGREDIENTS

|  |  |  |
| --- | --- | --- |
| Chemical Name | CAS-No. | Weight percent |
| p-Menthane-3,8-Diol | 42822-86-6 | 5.00 - 10.00 |

|  |  |  |
| --- | --- | --- |
| Octyldodecyl neopentanoate | 125496-22-2 | 5.00 - 10.00 |

|  |  |  |
| --- | --- | --- |
| Palmitic Acid | 57-10-3 | 1.00 - 5.00 |

|  |  |  |
| --- | --- | --- |
| Stearic acid | 57-11-4 | 1.00 - 5.00 |

|  |  |  |
| --- | --- | --- |
| Cetyl Alcohol | 36653-82-4 | 1.00 - 5.00 |

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

|  |  |  |
| --- | --- | --- |
| **Eye contact** | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. |
| **Skin contact** | : | If you suspect a reaction to this product, discontinue use and remove contaminated clothing. |
| **Inhalation** | : | No special requirements. |
| **Ingestion** | : | No special requirements |

5. FIREFIGHTING MEASURES

|  |  |  |
| --- | --- | --- |
| **Suitable extinguishing media** | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |

|  |  |  |
| --- | --- | --- |
| **Specific hazards during firefighting** | : | Container may melt and leak in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses. |

|  |  |  |
| --- | --- | --- |
| **Further information** | : | Fight fire from maximum distance or protected area. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. |

6. ACCIDENTAL RELEASE MEASURES

|  |  |  |
| --- | --- | --- |
| **Personal precautions** | : | Wear personal protective equipment.  Wash thoroughly after handling. |
| **Environmental precautions** | : | Do not flush into surface water or sanitary sewer system.  Use appropriate containment to avoid environmental contamination.  Outside of normal use, avoid release to the environment. |

|  |  |  |
| --- | --- | --- |
| **Methods and materials for containment and cleaning up** | : | Dike large spills.  Clean residue from spill site. |

7. HANDLING AND STORAGE

Handling

|  |  |  |
| --- | --- | --- |
| **Precautions for safe handling** | : | Avoid contact with eyes and lips.  For personal protection see section 8.  Use only as directed.  KEEP OUT OF REACH OF CHILDREN AND PETS.  Wash thoroughly after handling. |
| **Advice on protection against fire and explosion** | : | Normal measures for preventive fire protection. |

Storage

|  |  |  |
| --- | --- | --- |
| **Requirements for storage areas and containers** | : | Keep away from food, drink and animal feedingstuffs.  Keep in a dry, cool and well-ventilated place. |

|  |  |  |
| --- | --- | --- |
| **Other data** | : | Keep in a dry place. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

|  |  |  |
| --- | --- | --- |
| **Respiratory protection** | : | Do not spray in enclosed areas. |
| **Hand protection** | : | No special requirements. |
| **Eye protection** | : | No special requirements. |
| **Skin and body protection** | : | No special requirements. |
| **Hygiene measures** | : | Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |  |  |
| --- | --- | --- |
| **Form** | : | cream |
| **Color** | : | opaque white |
| **Odor** | : | mild |

|  |  |  |
| --- | --- | --- |
| **Odour Threshold** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **pH** | : | 6.5 |

|  |  |  |
| --- | --- | --- |
| **Melting point/freezing point** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Initial boiling point and boiling range** | : | > 100 °C |

|  |  |  |
| --- | --- | --- |
| **Flash point** | : | > 100 °C  > 212 °F |

|  |  |  |
| --- | --- | --- |
| **Evaporation rate** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Flammability (solid, gas)** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Upper/lower flammability or explosive limits** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Vapour pressure** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Vapour density** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Relative density** | : | 0.98 g/cm3 |

|  |  |  |
| --- | --- | --- |
| **Solubility(ies)** | : | dispersible |

|  |  |  |
| --- | --- | --- |
| **Partition coefficient: n-octanol/water** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Auto-ignition temperature** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Decomposition temperature** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Viscosity, dynamic** | : | Very viscous |

|  |  |  |
| --- | --- | --- |
| **Viscosity, kinematic** | : | Very viscous |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Oxidizing properties** | : | No data available |

|  |  |  |
| --- | --- | --- |
| **Volatile Organic Compounds**  **Total VOC (wt. %)\*** | : | 0.2 % - additional exemptions may apply  \*as defined by US Federal and State Consumer Product Regulations> |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Other information** | : | None identified | : | No data available |

10. STABILITY AND REACTIVITY

|  |  |  |
| --- | --- | --- |
| **Possibility of hazardous reactions** | : | If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated. |

|  |  |  |
| --- | --- | --- |
| **Conditions to avoid** | : | Direct sources of heat. |

|  |  |  |
| --- | --- | --- |
| **Incompatible materials** | : | Do not mix with bleach or any other household cleaners.  Strong bases |

|  |  |  |
| --- | --- | --- |
| **Hazardous decomposition products** | : | Thermal decomposition can lead to release of irritating gases and vapours. |

11. TOXICOLOGICAL INFORMATION

|  |  |  |
| --- | --- | --- |
| **Emergency Overview** | : | Warning |

|  |  |  |
| --- | --- | --- |
| **Acute oral toxicity** | : | LD50 > 5000 mg/kg |

|  |  |  |
| --- | --- | --- |
| **Acute inhalation toxicity** | : | LC50 > 5.1 mg/L |

|  |  |  |
| --- | --- | --- |
| **Acute dermal toxicity** | : | LD50 > 5000 mg/kg |

|  |  |  |
| --- | --- | --- |
| **GHS Properties** | **Classification** | **Routes of entry** |

|  |  |  |
| --- | --- | --- |
| Acute toxicity | No classification proposed | Oral |

|  |  |  |
| --- | --- | --- |
| Acute toxicity | No classification proposed | Dermal |

|  |  |  |
| --- | --- | --- |
| Acute toxicity | No classification proposed | Inhalation - Dust and Mist |

|  |  |  |
| --- | --- | --- |
| Acute toxicity | No classification proposed | Inhalation - Vapour |

|  |  |  |
| --- | --- | --- |
| Acute toxicity | No classification proposed | Inhalation - Gas |

|  |  |  |
| --- | --- | --- |
| Skin irritation | Category 3 | - |

|  |  |  |
| --- | --- | --- |
| Serious eye damage | Category 2B | - |

|  |  |  |
| --- | --- | --- |
| Skin sensitisation | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Respiratory sensitisation | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Germ cell mutagenicity | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Carcinogenicity | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Reproductive toxicity | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Specific target organ toxicity - single exposure | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Specific target organ toxicity - repeated exposure | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| Aspiration hazard | No classification proposed | - |

|  |  |  |
| --- | --- | --- |
| **Aggravated Medical Condition** | : | Do not apply to cuts or irritated skin. |

12. ECOLOGICAL INFORMATION

**Product :** The product itself has not been tested.

**Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

**Toxicity to fish**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Components** | **End point** | **Species** | **Value** | **Exposure time** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p-Menthane-3,8-Diol | semi-static test LC50 Measured OECD Test Guideline 203 | Danio rerio (zebra fish) | 62 mg/l | 96 h |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Octyldodecyl neopentanoate | No data available |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Palmitic Acid | semi-static test LC50 | Danio rerio (zebra fish) | 54 mg/l | 96 h |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Stearic acid |  |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cetyl Alcohol | semi-static test LC50 | Oncorhynchus mykiss (rainbow trout) | > 0.4 mg/l | 96 h |
|  |  |  |  |  |

**Toxicity to aquatic invertebrates**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Components** | **End point** | **Species** | **Value** | **Exposure time** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p-Menthane-3,8-Diol | static test EC50 MeasuredOECD Test Guideline 202 | Daphnia magna (Water flea) | 68 mg/l | 48 h |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Octyldodecyl neopentanoate | No data available |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Palmitic Acid | EC50 | Daphnia magna (Water flea) | > 0.25 mg/l | 48 h |
|  | NOEC | Daphnia magna (Water flea) | > 0.22 mg/l | 21 d |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Stearic acid | static test EC50 | Daphnia magna (Water flea) | > 32 mg/l | 47 h |
|  | NOEC Read-across (Analogy) | Daphnia magna | 0.022 mg/l | 21 d |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cetyl Alcohol | EC50 | Daphnia magna (Water flea) | > 0.01 mg/l | 48 h |
|  |  |  |  |  |

**Toxicity to aquatic plants**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Components** | **End point** | **Species** | **Value** | **Exposure time** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p-Menthane-3,8-Diol | EC50 Measured | Desmodesmus subspicatus (green algae) | 52 mg/l | 72 h |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Octyldodecyl neopentanoate | No data available |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Palmitic Acid | EC50 | Pseudokirchneriella subcapitata (green algae) | > 0.9 mg/l | 72 h |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Stearic acid | Static EC50 Read-across (Analogy) | Pseudokirchneriella subcapitata (green algae) | > 0.9 mg/l | 72 h |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cetyl Alcohol | EC50 | Desmodesmus subspicatus (green algae) | 1 mg/l | 96 h |

**Persistence and degradability**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Biodegradation** | **Exposure time** | **Summary** |

|  |  |  |  |
| --- | --- | --- | --- |
| p-Menthane-3,8-Diol | 75 % | 28 d | Readily biodegradable |
| Octyldodecyl neopentanoate | No data available |  |  |
| Palmitic Acid | 37.2 % | 5 d |  |
| Stearic acid | 72 % | 28 d | Not readily biodegradable. |
| Cetyl Alcohol | 76 % | 28 d |  |

**Bioaccumulative potential**

|  |  |  |
| --- | --- | --- |
| **Component** | **Bioconcentration factor (BCF)** | **Partition Coefficient n-Octanol/water (log)** |

|  |  |  |
| --- | --- | --- |
| p-Menthane-3,8-Diol | 14.95 estimated | 1.8 - 4.0 |

|  |  |  |
| --- | --- | --- |
| Octyldodecyl neopentanoate | No data available | No data available |

|  |  |  |
| --- | --- | --- |
| Palmitic Acid | 234 - 288 Read-across (Analogy) | 7.17  Measured |

|  |  |  |
| --- | --- | --- |
| Stearic acid | 238 - 288 | No data available |

|  |  |  |
| --- | --- | --- |
| Cetyl Alcohol | 56 | 6.7 |

**Mobility**

|  |  |  |
| --- | --- | --- |
| **Component** | **End point** | **Value** |

|  |  |  |
| --- | --- | --- |
| p-Menthane-3,8-Diol | No data available |  |

|  |  |  |
| --- | --- | --- |
| Octyldodecyl neopentanoate | No data available |  |

|  |  |  |
| --- | --- | --- |
| Palmitic Acid | Koc | 13230 QSAR |

|  |  |  |
| --- | --- | --- |
| Stearic acid | No data available |  |

|  |  |  |
| --- | --- | --- |
| Cetyl Alcohol | No data available |  |

**PBT and vPvB assessment**

|  |  |
| --- | --- |
| **Component** | **Results** |
| p-Menthane-3,8-Diol | Not fulfilling PBT and vPvB criteria |
| Palmitic Acid | Not fulfilling PBT and vPvB criteria |
| Stearic acid | Not fulfilling PBT and vPvB criteria |
| Cetyl Alcohol | Not fulfilling PBT and vPvB criteria |

|  |  |  |
| --- | --- | --- |
| **Other adverse effects** | **:** | None known. |

13. DISPOSAL CONSIDERATIONS

|  |  |  |
| --- | --- | --- |
|  |  | PESTICIDAL WASTE: For disposal information, please read and follow Disposal instructions on the pesticide label. Consumer may discard empty container in trash, or recycle where facilities exist. |

14. TRANSPORT INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Land transport** | **Sea transport** | **Air transport** |
| **UN number** |  |  |  |
| **UN proper shipping name** |  |  |  |
| **Transport hazard class(es)** |  |  |  |
| **Packing group** |  |  |  |
| **Environmental hazards** | - |  | - |
| **Special precautions for user** | Limited quantities derogation may be applicable to this product, please check transport documents. | Limited quantities derogation may be applicable to this product, please check transport documents. | Limited quantities derogation may be applicable to this product, please check transport documents. |

>

15. REGULATORY INFORMATION

**Notification status**

|  |  |  |
| --- | --- | --- |
| U.S. Toxic Substances Control Act | : | No data available |

**\**

16. OTHER INFORMATION

Safety Data Sheets (SDS) are intended to provide workers and emergency personnel with the proper procedures for handling or working with products. The information is intended to address handling of our products in occupational environments in accordance with country and region specific regulatory requirements under the Global Harmonization System of Classification and Labeling of chemicals and mixtures. These SDSs are not applicable to consumer use of our products.

**Further information**

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|  |  |
| --- | --- |
| Prepared by | SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA) |