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| **1. PRODUCT INFORMATION** | | | | | | | | | |
| **1.1** | **Product Name:** MOROCCANOIL- PERFECT DEFENSE | | | | | | | | |
| **1.2** | **Recommended Use / Product Use:** Hair Care | | | | | | | | |
| **1.3** | **Manufacturer’s Name:**  MOROCCANOIL, INC. | | | | | | | | |
| **1.4** | **Manufacturer’s Address:**  16311 VENTURA BLVD., STE. 1200, LOS ANGELES, CA 91436 | | | | | | | | |
| **1.5** | **Emergency Phone:**  Chemtrec (24 hours) 1-800-424-9300 (Toll-Free in the USA) For international calls: 011-703-527-3887 (Collect calls are accepted) Contract # CCN5\* | | | | | | | | |
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| **2. HAZARDOUS INGREDIENT INFORMATION** | | | | | | | | | |
| **SECTION 2.1** | | | | | | | | | |
| **Classification: Flammable aerosol, category 2**  **Signal Word: Warning**  **Hazard Code: H223**  **Hazard Statement: Flammable Aerosol. Pressurized**  **Container: May burst if heated**  **Symbol: Flame** | | | | | **Precautionary Code: Precautionary Statements**  **P210: Keep Away From Heat/sparks/open flames/hot surfaces. No smoking.**  **P211: Do not spray on an open flame or other ignition source.**  **P251: Do not pierce or burn, even after use.**  **P410: Protect from sunlight.**  **P412: Do not expose to temperatures exceeding**  **50°C/122°F.** | | | | |
| CRITERIA: Spray aerosols with an ignition distance ≥ 15 cm, but less than 75 cm, in the Spray ignition test | | | | | | | | | |
| **2.2** | HEALTH | | | ENVIRONMENTAL | | | | PHYSICAL | |
|  | There is no data on the product itself = ND | | | There is no data on the product itself = ND | | | | Pressurized Container: May Burst if  Heated: H229 | |
| **3. COMPOSITION/INFORMATION ON INGREDIENTS: Mixture** / **CBI**  **NOTE**: For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification. | | | | | | | | | |
| CHEMICAL IDENTITY | | CAS # | | EINECS# | | % (In Total Formula) | FLASHPOINT | | OTHER |
|  | Alcohol Denat. | 64-17-5 | 200-578-6 | | | 20 - 32 | 55oF | | Denatured |
|  | Dimethyl Ether | 115-10-6 | 204-065-8 | | | 42 - 58 | - 42oF | | DuPont® |
| **3.1** | Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance. | | | | | | | | |
|  | None present |  |  | | |  |  | |  |
| **3.2** | * Mixture: The chemical identity and concentration or concentration ranges of all ingredients which are hazardous within the meaning of the GHS and are present above their cut-off levels. * Cut-off level for reproductive toxicity, carcinogenicity and category 1 mutagenicity is 3 0.1%   Cut-off level for all other hazard classes is 3 1%    **NOTE**: For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification. | | | | | | | | |
|  | None present |  |  | | |  |  | |  |
|  | **4. FIRST AID MEASURES** | | | | | | | | |
| **4.1** | **First Aid:**  INGESTION: Drink enough water to dilute. Consult physician immediately  Flush eyes with plenty of water to ensure complete flushing. e.g., Eye wash station for 15 EYES: minutes. If irritation persists, seek medical attention  SKIN: Wash thoroughly with mild soap and water. If irritation persists, seek medical attention  INHALATION: Remove victim to fresh air at once. If breathing is difficult, seek medical attention | | | | | | | | |
| **4.2** | **Medical Conditions Aggravated by Exposure:** Pre-existing respiratory and skin disorder. | | | | | | | | |
|  | **5. FIREFIGHTING MEASURES** | | | | | | | | |
| **5.1** | **Extinguishing Methods:**  **(suitable and unsuitable)** | | CO2, Foam, Dry Chemical, and Water Spray | | | | | | |
| **5.2** | **Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).** | | Closed containers exposed to excessive heat may rupture. Do not crush or puncture containers. | | | | | | |
| **5.3** | **Special protective equipment and precautions for firefighters.** | | Fire should be fought from a safe distance. Firefighters should wear full face, self-contained breathing apparatus, and full protective clothing. | | | | | | |
|  | **6. ACCIDENTAL RELEASE MEASURES** | | | | | | | | |
| **6.1** | **Personal precautions, protective equipment and emergency procedures:** | | Depending on extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up. Do not eat, drink, or smoke while cleaning up. | | | | | | |
| **6.2** | **Ventilation** | | Use with adequate ventilation | | | | | | |
| **6.3** | **Respiratory** | | None required, when used with adequate ventilation | | | | | | |
| **6.4** | **Environmental Precautions:** | | Do not dispose of product into storm drains or waterways. | | | | | | |
| **6.5** | **Methods and materials for containment and cleaning up**. | | Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Refer to protective measures in section 7 and 8. Product is packed in aerosol containers. Dispose of any leaking aerosols per site instructions after placing in safe fireproof containers with leaking material absorbed by earth or other non-flammable absorbent. | | | | | | |

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| **7. HANDLING & STORAGE INFORMATION** | | | | | | | | |
| **7.1** | **Precautions for Safe Handling:**  Wash hands thoroughly after using this product and before eating, drinking, or smoking | | | | | | | |
| **7.2** | **Conditions for safe storage, including any incompatibilities.**  Keep away from excessive heat, open flames, sparks, and other possible source of ignition. Do not store in damaged or unmarked containers or storage devices. For warehouse storage, pallets and cases should be placed to avoid damage or rupture from material handling equipment. With use, spray aerosol carefully and cap after each use. | | | | | | | |
| **8. EXPOSURE CONTROLS / PERSONAL PROTECTION** | | | | | | | | |
| **8.1** | **Control parameters, e.g., occupational exposure limit values or biological limit values.** | | | | | | | |
| **8.2** | **Appropriate engineering controls.** | | | | | | | |
| **8.3** | **Personal Protective Equipment:** None required under normal conditions of use. When handling large quantities (e.g., > 1 gallon), wear protective eyeglasses, gloves, boot, and apron per OSHA regulations (29 CFR 1910.133) | | | | | | | |
| **CHEMICAL IDENTITY** | | **CAS #** | | **EINECS#** | **EXPOSURE LIMITS IN AIR** | | | **OTHER** |
| TLV ppm | PEL ppm | |
| Alcohol Denat. | | 64-17-5 | | 201-142-8 | 1000 | 1000 | | Unknown |
| Dimethyl Ether | | 115-10-6 | | 204-065-8 | 800 | Not established | | AEL: 1000ppm 8 & 12 hour TWA |
| **9. PHYSICAL & CHEMICAL PROPERTIES - TENTATIVE** | | | | | | | | |
| **ND = NO DATA / N/A = NOT APPLICABLE** | | | | | | | | |
| **CONCENTRATE: AEROSOLIZED PRODUCT:** | | | | | | | | |
| **9.1a** | **Appearance:** | | Opaque liquid | | | | Colorless spray | |
| **9.1b** | **Color:** | | Beige | | | | Clear | |
| **9.1c** | **Specific Gravity:** | | < 1.0 | | | | N/A | |
| **9.1d** | **Viscosity:** | | N/A | | | | N/A | |
| **9.2** | **Odor** | | TO MATCH STANDARD | | | | TO MATCH STANDARD | |
| **9.3** | **Odor Threshold** | | TO MATCH STANDARD | | | | TO MATCH STANDARD | |
| **9.4** | **pH:** | | > 4.0 - <10.0 | | | | N/A | |
| **9.5** | **Melting point/freezing point** | | ND | | | | N/A | |
| **9.6** | **Initial Boiling Point and Boiling Range:** | | ND | | | | N/A | |
| **9.7** | **Flashpoint:** | | ND | | | | N/A | |
| **9.8** | **Evaporation Rate** | | ND | | | | N/A | |
| **9.9** | **Flammability: solid/gas** | | LIQUID | | | | N/A | |
| **9.10** | **Upper/lower flammability or explosive limits** | | ND | | | | N/A | |
| **9.11** | **Vapor pressure** | | ND | | | | N/A | |
| **9.12** | **Vapor density** | | ND | | | | N/A | |
| **9.13** | **Relative density** | | See Specific Gravity | | | | N/A | |
| **9.14** | **Solubiity(ies)** | | ALCOHOL | | | | N/A | |
| **9.15** | **Partition coefficient: noctanol/water** | | ND | | | | N/A | |
| **9.16** | **Autoignition temperature** | | ND | | | | N/A | |
| **9.17** | **Decomposition temperature** | | ND | | | | N/A | |
| **9.18** | **Volatile Organic Compounds (VOC) %** | | N/A | | | | VOC = ≥75.0% | |
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| **10. STABILITY & REACTIVITY** | | | | | | | | |
| **10.1** | **Chemical Stability:** | | Stable under normal conditions of use | | | | | |
| **10.2** | **Possibility of hazardous reactions:** | | Hazardous polymerization will not occur. | | | | | |

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| **10.3** | **Conditions to Avoid:** | | Use or storage near open flames, sparks, high heat (>100°F) or other heat sources | | | | | | | | |
| **10.5** | **Incompatible Substances:** | | Strong oxidizing agents | | | | | | | | |
| **10.2** | **Hazardous Decomposition Products:** | | Irritating vapors and toxic gases when involved in fire | | | | | | | | |
| **11. TOXICOLOGICAL INFORMATION** | | | | | | | | | | | |
| **11.1** | **TYPES OF EXPOSURE:** | | | | | | | | | | |
|  | **ROUTES OF**  **EXPOSURE:** | **Skin** | | X | **Inhalation** | X | | **Eyes** | X | **Ingestion** | X |
|  | **HEALTH EFFECTS OF EXPOSURE:** | **IMMEDIATE** | | | | | **CHRONIC** | | | | |
|  | **INGESTION:** | May cause gastrointestinal irritation | | | | | Seek medical attention if symptoms persist. | | | | |
|  | **EYES:** | Liquid and vapor may cause mild to severe eye irritation. | | | | | Seek medical attention if symptoms persist. | | | | |
|  | **SKIN:** | Repeated contact may cause irritation and drying of the skin. **Contact with propellant may cause freeze burns.** | | | | | Seek medical attention if symptoms persist. | | | | |
|  | **INHALATION:** | Vapor may cause irritation to the upper respiratory tract | | | | | Seek medical attention if symptoms persist. | | | | |
| **12. ECOLOGICAL INFORMATION** | | | | | | | | | | | |
| **12.1** | There is no date on the product itself. | | | | | | | | | | |
| **12.2** | Eco-toxicity (aquatic and terrestrial, where available). Persistence and degradability. Bio-accumulative potential. Mobility in soil. Other adverse effects: There is no data available on the product itself. | | | | | | | | | | |
| **12.3** | The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface water. | | | | | | | | | | |
| **13. DISPOSAL CONSIDERATIONS** | | | | | | | | | | | |
| **13.1** | Dispose of in accordance with federal, state or local regulations. | | | | | | | | | | |
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| **14. TRANSPORTATION INFORMATION** | | | | | | | | | | | |
| **14.1** | SHIPPING NAME 49CFR (GND) CONSUMER COMMODITY, ORM-D (≤ 1.0L) or  Regulated 49 CFR (GND) UN1950, AEROSOLS, FLAMMABLE, 2.1, “LTD. QTY.”  or  Regulated 49 CFR (GND) UN1950, AEROSOLS, FLAMMABLE, 2.1 or  Regulated IATA (AIR) ID 8000, CONSUMER COMMODITY, 9 or  Regulated IATA (AIR) UN 1950, AEROSOLS, FLAMMABLE, 2.1, “LTD. QTY.” or  Regulated IATA (AIR) UN 1950, AEROSOLS, FLAMMABLE, 2.1 or  Regulated IMDG (OCN) UN1950, AEROSOLS, FLAMMABLE, 2.1, “LTD. QTY.”  EMS # F-D, S-U  Regulated or  IMDG (OCN) UN1950, AEROSOLS, FLAMMABLE, 2.1    CHOOSE FROM THE FOLLOWING SYMBOLS: | | | | | | | | | | |
| **14.2** | HAZCHEM Regulated Aerosol Level: ( 1 )  CODE: | | | | | | | | | | |

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| **14.3** | MARINE N 49 CFR APPENDIX B SECTION 172.101 |  |
| POLLUTANT: |  |
| **15. REGULATORY INFORMATION** | |
| **15.1** | Contents of this SDS comply with the OSHA Hazard Communication Standard CFR 1910.1200: The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) |
| **15.2** | **EPA SARA Title III Chemical Listings**  Section 302 Extremely Hazardous Substances: NoneSection 304 CERCLA Hazardous Substances: None Section 313 Toxic Chemicals: None present or none present in regulated quantities. |
| **15.3** | California Proposition 65: No reportable components |
|  | UN GHS: [Globally Harmonized System of Classification and Labelling of Chemicals](http://www.unece.org/trans/danger/publi/ghs/ghs_rev01/01files_e.html) (GHS) ("The Purple Book"),  United Nations, 2005 First Revised Edition, available online or from United Nations Publications. [UN GHS website](http://www.unece.org/contact/UNECE404.htm) |
|  | USA: Federal Hazardous Materials Transportation Law (49 U.S.C. 5101 et seq.). |
|  | USA: OSHA Hazard Communication Standard 29 CFR 1910.1200. |
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| **16. OTHER INFORMATION: including information on preparation and revision of the SDS** | |
| **Further information** : None.  This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Moroccanoil to be dependable and is accurate to the best of the company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.  This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Moroccanoil assumes no responsibility for injury to the recipient, or third parties or for any damage to any property resulting from misuse of the product. | |