1.) Identification of the Mixture and of the Company

Product identifier: Fuel

Product name:
Max Burton Premium Butane Fuel #1213
Max Burton Butane Fuel Cartridge #1215
Max Burton High Performance Fuel #1219
Max Burton High Performance Fuel Blend Cartridge #1220
Max Burton Refillable Gas Lighter Kit #1254

Relevant identified uses of the substance: Ideal fuel source for cooking and lighting while backpacking at high altitude or low temperature. Uses advised against: DO NOT use or store near heat or open flame. DO NOT puncture on incinerate.

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)
Manufacturer/Supplier: Aervoe Industries Incorporated
Street address/P.O. Box: 1100 Mark Circle
Country ID/Postcode/Place: Gardnerville, Nevada 89410
Telephone number: 001 (0) 1-775-782-0100
e-mail: mailbox@aervoe.com
National contact: Aervoe Industries Incorporated
For Product Information: 001 (0) 1-800-227-0196
Emergency telephone number: 001 (0) 1-800-424-9300 (CHEMTREC – 24 hrs)
English Language Service

2. Hazards identification

Classifications

Physical Hazards:
Press. Gas
Flam. Gas. 1

Health Hazards:
Carc. 1B
Muta. 1B

Environmental Hazards: N/AV

Labeling

Signal Word: Danger
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                    H280 – Contains gas under pressure; may explode if heated
                    H340 – May cause genetic defects
                    H350 – May cause cancer

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
                          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 - Pressurized container: Do not pierce or burn, even after use
                          P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
                          P262 - Do not get in eyes, on skin, or on clothing
                          P264 - Wash … thoroughly after handling
                          P280 - Wear protective gloves/eye protection/face protection
                          P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower.
                          P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF
                          P501 - Dispose of contents/container in accordance with local/regional/national/international regulation
                          P251 - Pressurized container: Do not pierce or burn, even after use

Symbols/Pictograms:

3. Composition / Information on Ingredients

Composition

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Synonyms</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>Weight Percent</th>
<th>Hazard Category</th>
<th>H-Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon Propellant</td>
<td>LPG</td>
<td>68476-86-8</td>
<td>270-705-8</td>
<td>60-100%</td>
<td>Press. Gas Flam. Gas 1 Carc. 1B Muta. 1B</td>
<td>H220 H350 H340</td>
</tr>
</tbody>
</table>

Other Product Information
4.) First Aid Measures

**General Advice:** If symptoms persist, always call a doctor.

**Inhalation First Aid:** Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

**Skin Contact First Aid:** Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.

**Eye Contact First Aid:** If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.

**Ingestion First Aid:** If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Most Important Symptoms/Effects:** Exposure may cause slight irritation to the skin, eyes, and respiratory tract. Excessive exposure may cause central nervous system effects.

5. Fire Fighting Measures

**Flammable Properties:** Compressed gas
**Auto Ignition Temperature:** Not Available
**Suitable extinguishing media:** Carbon dioxide, dry chemical, water spray.
**Unsuitable extinguishing media:** None known
**Special hazards arising from the substance or mixture:** None known
**Hazardous combustion products:** Carbon dioxide, Carbon monoxide
**Fire & Explosion Hazards:** Closed Containers may rupture due to the buildup of pressure from extreme temperatures.

**Precautions for fire-fighters:** Use water spray to cool containers exposed to heat or fire to prevent pressure build up. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

**PERSONAL PRECAUTIONARY MEASURES:**
1) Follow personal protective equipment recommendations found in section 8.
2) Maintain adequate ventilation.
SPILL CLEAN-UP PROCEDURES:
1.) Evacuate unprotected personnel from the area.
2.) Remove sources of ignition if safe to do so.
3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
4.) Contain spill to prevent material from entering sewage or ground water systems.
5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Handling:
Flammable compressed gas, use in a well ventilated area.
Do not use near sources of ignition.
Do not to eat, drink and smoke while working with this material.
Wash hands after use.

Conditions for safe storage, including any incompatibilities:
Store out of direct sunlight.
Storage Temperature: 32° to 120°F (0° to 49°C).
No known incompatibilities.

8. Exposure Controls / Personal Protection

Appropriate engineering controls:
Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.
Keep away from sources of ignition.
Take precautionary measures against static discharge.

Personal Protection:
Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection
Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:
Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

<table>
<thead>
<tr>
<th>Hazardous Ingredient</th>
<th>CAS Number</th>
<th>ACGIH TLV (TWA)</th>
<th>ACGIH TLV (STEL)</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (STEL)</th>
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</thead>
<tbody>
<tr>
<td>Hydrocarbon Propellant</td>
<td>68476-86-</td>
<td>N/AV</td>
<td>N/AV</td>
<td>N/AV</td>
<td>N/AV</td>
</tr>
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</table>
9. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N/AV</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/AV</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>N/AV</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt;0° F (-18° C)</td>
</tr>
<tr>
<td>Flammability Solid/Gas</td>
<td>Flammable gas</td>
</tr>
<tr>
<td>LEL</td>
<td>0.6%</td>
</tr>
<tr>
<td>UEL</td>
<td>9.5%</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/AV</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>N/AV</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Faster than n-Butyl Acetate</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/AV</td>
</tr>
<tr>
<td>Relative Density</td>
<td>N/AV</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>n-octanol/ water: N/AV</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/AV</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>N/AV</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Heavier Than Air</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible</td>
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<tr>
<td>Auto-ignition Temperature</td>
<td>N/AV</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/AV</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>N/AV</td>
</tr>
</tbody>
</table>

10. Stability & Reactivity

- Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions
- Chemical stability: Stable under normal conditions
- Conditions to avoid: Heat and ignition sources
- Incompatible materials: Strong Oxidizing Agents
- Hazardous decomposition products: Will not occur

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: N/AV

Eye irritation data: N/AV

Skin irritation/sensitization/absorption data: N/AV

Reproductive toxicity data: N/AV
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Mutagenicity data: Muta. 1B
Symptoms associated with physical contact: N/AV
Acute/chronic effects from short/long term exposure: Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the following agencies:

NTP: N/AV
IARC: N/AV
OSHA: N/AV

* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California’s prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

12. Ecological Information

Ecotoxicity: No Data Available
Persistence and degradability: No Data Available
Bioaccumulative potential: No Data Available
Mobility in soil: No Data Available
Results of PBT and vPvB assessment: No Data Available
Other adverse effects: No Data Available

13. Disposal Considerations

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.
Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information

US DOT

<table>
<thead>
<tr>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>Marine Pollutant</th>
<th>Special Provisions</th>
</tr>
</thead>
</table>


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| UN1965 | HYDROCARBON GAS MIXTURE, LIQUIFIED, N.O.S. (HYDROCARBON PROPELLANT) | 2.1 | Not Applicable | Not Applicable | Reference 49 CFR 172.101 |

### IMDG

<table>
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<th>UN Number</th>
<th>Proper Shipping Name</th>
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<th>Marine Pollutant</th>
<th>Special Provisions</th>
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<tr>
<td>UN1965</td>
<td>HYDROCARBON GAS MIXTURE, LIQUIFIED, N.O.S. (HYDROCARBON PROPELLANT)</td>
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<td>Reference IMDG code part 3</td>
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### IATA:

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<td>2.1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Reference IATA Dangerous Goods Regulation</td>
</tr>
</tbody>
</table>

### 15. Regulatory Information

**Workplace classification:**
This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

**SARA Title 3:**
Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

**TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR.

**PROP 65 (CA):** WARNING: This product may contain chemicals know to the state of California to cause cancer, birth defects or other reproductive harm.

### 16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.
To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.