SECTION 1: IDENTIFICATION

1.1. Product Identifier

|  |
| --- |
| Product Form:Mixture |
| Product Name: Butane Fuel |
| Product Code:F300, F305 |

1.2. Intended Use of the Product

|  |
| --- |
| Fuel |
| 1.3. Name, Address, and Telephone of the Responsible Party |
| FancyHeat Corporation40 Veronica Ave.Somerset, NJ 08873(973)-589-1450[www.fancyheat.com](http://www.fancyheat.com)customerservice@fancyheat.com |  |

1.4. Emergency Telephone Number

|  |  |  |
| --- | --- | --- |
| Emergency Number | : | For Chemical Emergency Call CHEMTREC day or night Within USA and Canada: 1.800.424.9300Mexico: 1.800.681.9531Outside USA and Canada: 1.703.527.3887 (collect calls accepted) |

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

|  |  |
| --- | --- |
| Flammable gases Category 1 | H220  |
| Gases under pressure Liquefied gas | H280  |
| Simple Asphyxiant |   |

2.2. Label Elements

GHS-US/CA Labeling

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Hazard Pictograms (GHS-US/CA) | : | GHS02 | GHS04 |  |  |  |  |
| Signal Word (GHS-US/CA) | : | Danger |
| Hazard Statements (GHS-US/CA) | : | H220 - Extremely flammable gas.H280 - Contains gas under pressure; may explode if heated.May displace oxygen and cause rapid suffocation. |
| Precautionary Statements (GHS-US/CA) | : | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.P381 - In case of leakage, eliminate all ignition sources.P403 - Store in a well-ventilated place.P410+P403 - Protect from sunlight. Store in a well-ventilated place. |

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Contact with gas escaping the container can cause frostbite.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

|  |  |  |  |
| --- | --- | --- | --- |
| **NFPA Health Hazard** | **:** | 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. |  |
| **NFPA Fire Hazard** | **:** | 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily. |
| **NFPA Reactivity Hazard** | **:** | 0 - Material that in themselves are normally stable, even under fire conditions. |
| **NFPA Specific Hazards** | **:** | SA - This denotes gases which are simple asphyxiants. |

|  |
| --- |
| HMIS III Rating |
| **Health** | **:** | 2 Moderate Hazard - Temporary or minor injury may occur |
| **Flammability** | **:** | 4 Severe Hazard |
| **Physical** | **:** | 3 Serious Hazard |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | **Synonyms** | Product Identifier | % \* | GHS Ingredient Classification |
| Isobutane | 2-Methylpropane / Propane, 2-methyl- / ISOBUTANE / R600a / isobutane | (CAS-No.) 75-28-5 | 25 – 100 | Flam. Gas 1, H220Press. Gas (Liq.), H280Simple Asphy |
| n-Butane | Butane / BUTANE | (CAS-No.) 106-97-8 | ≤ 80 | Flam. Gas 1, H220Press. Gas (Liq.), H280Simple Asphy |
| Propane | Normal propane / PROPANE / n-Propane / R290 | (CAS-No.) 74-98-6 | ≤ 25 | Flam. Gas 1, H220Press. Gas (Liq.), H280Simple Asphy |

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Composition is variable.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

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

Inhalation**:** First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.

Skin Contact**:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists. If frostbite or freezing from exposure to gas/liquid escaping the container occurs: For brief contact with a small amount: Rewarm with body heat. Get immediate medical advice/attention. For extensive contact or a large amount: Immediately call a poison center/doctor and follow their advice. Specific treatment is urgent, incorrect first-aid practices will aggravate the injury. Protect affected area with a loose cover until proper medical treatment is received.

Eye Contact**:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. In case of freeze burn cover eyes to protect from light. Seek immediate medical attention.

Ingestion**:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

|  |
| --- |
| General**:** Asphyxia by lack of oxygen: risk of death. May cause frostbite on contact with the liquid. |
| Inhalation**:** In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. |
| Skin Contact**:** Contact with gas/liquid escaping the container can cause frostbite and freeze burns. |
| Eye Contact**:** Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage. |
| Ingestion**:** Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite. |
| Chronic Symptoms**:** None expected under normal conditions of use. |

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

|  |
| --- |
| If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. |

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

|  |
| --- |
| Suitable Extinguishing Media**:** Do not extinguish burning gas if flow cannot be shut off immediately. Extinguish secondary FIRES with appropriate materials.  |
| Unsuitable Extinguishing Media**:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.  |

5.2. Special Hazards Arising From the Substance or Mixture

|  |
| --- |
| Fire Hazard**:** Extremely flammable gas.  |
| Explosion Hazard**:** May form flammable/explosive vapor-air mixture. Container may explode in heat of fire.  |
| Reactivity**:** Hazardous reactions will not occur under normal conditions.  |

5.3. Advice for Firefighters

|  |
| --- |
| Precautionary Measures Fire**:** Exercise caution when fighting any chemical fire.  |
| Firefighting Instructions**:** Fight fire remotely due to the risk of explosion. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. |
| Protection During Firefighting**:** Do not enter fire area without proper protective equipment, including respiratory protection.  |
| **Hazardous Combustion Products**: Carbon oxides (CO, CO2).  |
| Other Information**:** Use water spray to disperse vapors. |
| 5.4. Reference to Other SectionsRefer to Section 9 for flammability properties. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

|  |
| --- |
| General Measures**:** Eliminate every possible source of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe Gas. |

6.1.1. For Non-Emergency Personnel

|  |
| --- |
| Protective Equipment**:** Use appropriate personal protective equipment (PPE). |
| Emergency Procedures**:** Evacuate unnecessary personnel. |

6.1.2. For Emergency Personnel

|  |
| --- |
| Protective Equipment**:** Equip cleanup crew with proper protection. |
| Emergency Procedures**:** Eliminate ignition sources first, then evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. |

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

|  |
| --- |
| For Containment:As an immediate precautionary measure, isolate spill or leak area in all directions. Stop leak, if possible without risk. |
| Methods for Cleaning Up**:** Clean up spills immediately and dispose of waste safely. Stop the source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Contact competent authorities after a spill. |

6.4. Reference to Other Sections

|  |
| --- |
| See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations. |

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

|  |
| --- |
| Additional Hazards When Processed:Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Asphyxiating gas at high concentrations. Handle empty containers with care because residual vapors are flammable. |
| Precautions for Safe Handling: Do not breathe gas. Avoid prolonged contact with eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
| Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.  |

**7.2. Conditions for Safe Storage, Including Any Incompatibilities**

|  |
| --- |
| Technical Measures:Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. |
| Storage Conditions:Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling. Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep in fireproof place. |
| Incompatible Materials: Strong acids, strong bases, strong oxidizers. Halogenated compounds. |

7.3. Specific End Use(s)

|  |
| --- |
| Fuel |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

|  |
| --- |
| Propane (74-98-6) |
| USA ACGIH | ACGIH chemical category | Simple asphyxiant See Appendix F: Minimal Oxygen Content |
| USA OSHA | OSHA PEL (TWA) [1] | 1800 mg/m³ |
| USA OSHA | OSHA PEL (TWA) [2] | 1000 ppm |
| USA NIOSH | NIOSH REL (TWA) | 1800 mg/m³ |
| USA NIOSH | NIOSH REL TWA [ppm] | 1000 ppm |
| USA IDLH | IDLH [ppm] | 2100 ppm (10% LEL) |
| Alberta | OEL TWA [ppm] | 1000 ppm |
| Nunavut | OEL STEL [ppm] | 1250 ppm |
| Nunavut | OEL TWA [ppm] | 1000 ppm |
| Northwest Territories | OEL STEL [ppm] | 1250 ppm |
| Northwest Territories | OEL TWA [ppm] | 1000 ppm |
| Québec | VEMP (OEL TWA) | 1800 mg/m³ |
| Québec | VEMP (OEL TWA) [ppm] | 1000 ppm |
| Saskatchewan | OEL STEL [ppm] | 1250 ppm |
| Saskatchewan | OEL TWA [ppm] | 1000 ppm |

|  |
| --- |
| Isobutane (75-28-5) |
| USA ACGIH | ACGIH OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| USA NIOSH | NIOSH REL (TWA) | 1900 mg/m³ |
| USA NIOSH | NIOSH REL TWA [ppm] | 800 ppm |
| British Columbia | OEL STEL [ppm] | 1000 ppm (Butane, all isomers) |
| Manitoba | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Newfoundland & Labrador | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Nova Scotia | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Nunavut | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Nunavut | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |
| Northwest Territories | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Northwest Territories | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |
| Ontario | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, all isomers) |
| Prince Edward Island | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Saskatchewan | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Saskatchewan | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |

|  |
| --- |
| n-Butane (106-97-8) |
| USA ACGIH | ACGIH OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| USA NIOSH | NIOSH REL (TWA) | 1900 mg/m³ |
| USA NIOSH | NIOSH REL TWA [ppm] | 800 ppm |
| USA IDLH | IDLH [ppm] | 1600 ppm (>10% LEL) |
| Alberta | OEL TWA [ppm] | 1000 ppm |
| British Columbia | OEL STEL [ppm] | 1000 ppm (Butane, all isomers) |
| Manitoba | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| New Brunswick | OEL TWA | 1900 mg/m³ |
| New Brunswick | OEL TWA [ppm] | 800 ppm |
| Newfoundland & Labrador | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Nova Scotia | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Nunavut | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Nunavut | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |
| Northwest Territories | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Northwest Territories | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |
| Ontario | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, all isomers) |
| Prince Edward Island | OEL STEL [ppm] | 1000 ppm (explosion hazard (Butane, isomers) |
| Québec | VEMP (OEL TWA) | 1900 mg/m³ |
| Québec | VEMP (OEL TWA) [ppm] | 800 ppm |
| Saskatchewan | OEL STEL [ppm] | 1250 ppm (Butane, all isomers) |
| Saskatchewan | OEL TWA [ppm] | 1000 ppm (Butane, all isomers) |
| Yukon | OEL STEL | 1600 mg/m³ |
| Yukon | OEL STEL [ppm] | 750 ppm |
| Yukon | OEL TWA | 1400 mg/m³ |
| Yukon | OEL TWA [ppm] | 600 ppm |

|  |
| --- |
| Aliphatic hydrocarbon gases: Alkanes (C1-4)  |
| Nunavut | OEL STEL [ppm] | 1250 ppm |
| Nunavut | OEL TWA [ppm] | 1000 ppm |
| Northwest Territories | OEL STEL [ppm] | 1250 ppm |
| Northwest Territories | OEL TWA [ppm] | 1000 ppm |
| Saskatchewan | OEL STEL [ppm] | 1250 ppm |
| Saskatchewan | OEL TWA [ppm] | 1000 ppm |

|  |
| --- |
| Aliphatic hydrocarbon gases, alkane (C2-4)  |
| Alberta | OEL TWA [ppm] | 1000 ppm |

8.2. Exposure Controls

|  |
| --- |
| Appropriate Engineering Controls**:** Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases or vapors may be released. Oxygen detectors should be used when asphixiating gases may be released. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure all national/local regulations are observed. |
| Personal Protective Equipment**:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.  |
| Materials for Protective Clothing**:** Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. |
| Hand Protection**:** Wear protective gloves. If material is cold, wear thermally resistant protective gloves. |
| Eye and Face Protection**:** Chemical safety goggles. |
| Skin and Body Protection**:** Wear suitable protective clothing. |
| Respiratory Protection**:** Use a NIOSH-approved self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. |
| Thermal Hazard Protection**:** Wear thermally resistant protective clothing. |
| Other Information**:** When using, do not eat, drink or smoke. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

|  |  |  |
| --- | --- | --- |
| Physical State | : | Gas |
| Appearance | : | Colorless |
| Odor | : | Characteristic |
| Odor Threshold | : | No data available |
| pH | : | No data available |
| Evaporation Rate | : | No data available |
| Melting Point | : | No data available |
| Freezing Point | : | No data available |
| Boiling Point | : | -44 °C (-47.2 °F) |
| Flash Point | : | -1 °C (30.2 °F) |
| Auto-ignition Temperature | : | 460 °C (860 °F) |
| Decomposition Temperature | : | No data available |
| Flammability (solid, gas) | : | Extremely flammable gas |
| Lower Flammable Limit | : | 1.7 % |
| Upper Flammable Limit | : | 10.9 % |
| Vapor Pressure | : | 8300 hPa at 20 °C (68 °F) |
| Relative Vapor Density at 20°C | : | No data available |
| Relative Density | : | No data available |
| Density | : | 0.4 g/cm³ at 20 °C (3.338 lbs/gal at 68 °F) |
| Specific Gravity | : | No data available |
| Solubility | : | No data available |
| Partition Coefficient: N-Octanol/Water | : | No data available |
| Viscosity | : | No data available |
| Explosive Properties | : | Contains gas under pressure; may explode if heated |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability:

Contains gas under pressure; may explode if heated.

10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Halogenated compounds.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

|  |
| --- |
| Acute Toxicity (Oral)**:** Not classified |
| Acute Toxicity (Dermal)**:** Not classified |
| Acute Toxicity (Inhalation)**:** Not classified |

LD50 and LC50 Data**:**

No additional information available

Skin Corrosion/Irritation**:** Not classified

Eye Damage/Irritation**:** Not classified

Respiratory or Skin Sensitization**:** Not classified

Germ Cell Mutagenicity**:** Not classified

Carcinogenicity**:** Not classified

Specific Target Organ Toxicity (Repeated Exposure)**:** Not classified

Reproductive Toxicity**:** Not classified

Specific Target Organ Toxicity (Single Exposure)**:** Not classified

Aspiration Hazard**:** Not classified

Symptoms/Injuries After Inhalation**:** In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death.

Symptoms/Injuries After Skin Contact**:** Contact with gas/liquid escaping the container can cause frostbite and freeze burns.

Symptoms/Injuries After Eye Contact**:** Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Injuries After Ingestion**:** Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite.

Chronic Symptoms: None expected under normal conditions of use.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data**:**

|  |
| --- |
| Propane (74-98-6) |
| LC50 Inhalation Rat | > 800000 ppm (Exposure time: 15 min) |

|  |
| --- |
| n-Butane (106-97-8) |
| LC50 Inhalation Rat | 30957 mg/m³ (Exposure time: 4 h) |
| LC50 Inhalation Rat | 276798.8 ppm |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

|  |
| --- |
| Ecology - General: Not classified. |

12.2. Persistence and Degradability

|  |
| --- |
| Butane Fuel  |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

|  |
| --- |
| Butane Fuel  |
| Bioaccumulative Potential | Not established. |

|  |
| --- |
| Propane (74-98-6) |
| Partition coefficient n-octanol/water (Log Pow) | 1.09 at 20 °C (at pH 7) |

|  |
| --- |
| Isobutane (75-28-5) |
| BCF Fish 1 | 1.57 – 1.97 |
| Partition coefficient n-octanol/water (Log Pow) | 1.09 – 2.8 at 20 °C (at pH 7) |

|  |
| --- |
| n-Butane (106-97-8) |
| Partition coefficient n-octanol/water (Log Pow) | 2.31 at 20 °C (at pH 7) |

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

|  |
| --- |
| Other Information:Avoid release to the environment. |

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations:Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information:Handle empty containers with care because residual vapors are flammable. Empty gas cylinders should be returned to the vendor for recycling or refilling. Do not puncture or incinerate container.

Ecology - Waste Materials:Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

|  |  |  |
| --- | --- | --- |
| Proper Shipping Name | : | RECEPTACLES, SMALL, CONTAINING GAS |
| Hazard Class | : | 2.1 |  |
| Identification Number | : | UN2037 |
| Label Codes | : | 2.1 |
| ERG Number | : | 115  |

14.2. In Accordance with IMDG

|  |  |  |
| --- | --- | --- |
| Proper Shipping Name  | : | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)  |
| Hazard Class  | : | 2.1  |  |
| Identification Number | : | UN2037  |
| Label Codes | : | 2.1  |
| EmS-No. (Fire) | : | F-D  |
| EmS-No. (Spillage) | : | S-U  |

14.3. In Accordance with IATA

|  |  |  |
| --- | --- | --- |
| Proper Shipping Name | : | RECEPTACLES, SMALL, CONTAINING GAS  |
| Hazard Class | : | 2.1  |  |
| Identification Number | : | UN2037 |
| Label Codes  | : | 2.1 |
| ERG Code (IATA) | : | 10L  |

14.4. In Accordance with TDG

|  |  |  |
| --- | --- | --- |
| Proper Shipping Name | : | RECEPTACLES, SMALL, CONTAINING GAS  |
| Hazard Class | : | 2.1  |  |
| Identification Number | : | UN2037  |
| Label Codes | : | 2.1  |

 SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

|  |
| --- |
| Butane Fuel |
| SARA Section 311/312 Hazard Classes | Physical hazard - Flammable (gases, aerosols, liquids, or solids)Physical hazard - Gas under pressureHealth hazard - Simple asphyxiant |

|  |
| --- |
| Propane (74-98-6) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |

|  |
| --- |
| Isobutane (75-28-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |

|  |
| --- |
| n-Butane (106-97-8) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |

15.2. US State Regulations

|  |
| --- |
| Propane (74-98-6) |
| U.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) ListU.S. - Massachusetts - Right To Know List |

|  |
| --- |
| Isobutane (75-28-5) |
| U.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) ListU.S. - Massachusetts - Right To Know List |

|  |
| --- |
| n-Butane (106-97-8) |
| U.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) ListU.S. - Massachusetts - Right To Know List |

15.3. Canadian Regulations

|  |
| --- |
| **Propane (74-98-6)** |
| Listed on the Canadian DSL (Domestic Substances List) |

|  |
| --- |
| **Isobutane (75-28-5)** |
| Listed on the Canadian DSL (Domestic Substances List) |

|  |
| --- |
| **n-Butane (106-97-8)** |
| Listed on the Canadian DSL (Domestic Substances List) |

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

|  |  |  |
| --- | --- | --- |
| Date of Preparation or Latest Revision | : | 06/20/2023 |
| Other Information | : | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR) SOR/2015-17. |
| GHS Full Text Phrases: |

|  |  |  |
| --- | --- | --- |
| ------ | H220 | Extremely flammable gas |
| ------ | H280 | Contains gas under pressure; may explode if heated |

*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.*

NA GHS SDS 2015 (Can, US)