ULTRA COOL INC
4839 UNION RD
BEAMSVILLE, ON L6V 0V6
www.ultracool.ca
905-643-0060

PRODUCT: NuFlame Ultra Platinum Butane **CODE: UF-4985**

SECTION 01: IDENTIFICATION

Product Identifier	NuFlame Ultra Platinum Butane, Utility Lighters
Other means of Identification	UF-4985, UF-4986, UF-4988,UF-4900, UF-4901
Product codes	UF-4985 165g, UF-4986 330g, UF-4987 (3x165g cans) UF-4988 80ml,UF-4900, UF-4901
Chemical Family	Butane (liquefied gas under pressure).
Recommended use and restrictions	Fuel.
Initial Supplier Identifier	Ultra Cool Inc. 4839 Union Rd Beamsville, ON L3J 0V6 Tel: 905-643-0060 Fax: 905-828-8070
Emergency telephone number and any restrictions on the use of that number	Ultra Cool Inc: 905-643-0060 (9:00 - 5:00; M-F) . In the event of a transport emergency contact CANUTEC at (613) 996-6666. .

SECTION 02: HAZARD IDENTIFICATION



Signal Word	DANGER.
Hazard Classification	Flammable Gases — Category 1. Gases Under Pressure — Liquefied Gas.
Hazard Statements	H220 Extremely flammable gas . H280 Contains gas under pressure; may explode if heated .
Prevention	P210 Keep away from all sources of heat, sparks, open flames, hot surfaces. No smoking.
Response	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely . P381 In case of leakage, eliminate all ignition sources .
Storage	P410 + P403 Protect from sunlight. Store in a well-ventilated place .
Disposal	Dispose of contents and empty containers in accordance with local regulations.
Other hazards	May displace oxygen and cause rapid suffocation .
Mixture Statement	This product has been classified based upon the information provided by the supplier.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Butane	106-97-8	~99.9

SECTION 04: FIRST-AID MEASURES

FIRST AID MEASURES:

Skin Contact	Immediately remove contaminated clothing. Wet contaminated clothing extensively. In case of frostbite, apply lukewarm water and seek medical attention immediately. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact	Check for an remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Ingestion	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. As this product rapidly becomes a gas when released, refer to the inhalation section.
Inhalation	At high concentration butane acts as a simple asphyxiant, and can displace oxygen. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 04: FIRST-AID MEASURES

Symptoms and effects.....	Harmful if inhaled. May displace oxygen and cause rapid suffocation. The main symptoms associated with simple asphyxia are headache, nausea, dizziness, incoordination, breathing difficulties, loss of consciousness and possibly anoxia-related death. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Medical attention and special treatment....	Treat symptomatically. Adverse symptoms may include frostbite. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. The administration of oxygen requires additional training.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing ..... media	Use dry chemical or self-expanding foam. Do not use carbon dioxide, low-expansion foam or water jet directly on liquefied gas. The use of water or other liquids at room temperature on liquefied gas will instantly vaporize it. Water can be used to cool and protect exposed material.
Specific hazards arising from the ..... hazardous product, such as the nature of any hazardous combustion products	Butane is a highly flammable gas. It quickly ignites in the air in the presence of a static charge of electricity, a spark, an open flame or another source of ignition or ignition. Mixed with air can produce an explosive mixture. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Liquefied butane can accumulate electrostatic loads by flow, pipe friction, dabbling or agitation. The gaseous butane within the flammability limits can easily ignite in the presence of an electrostatic discharge of sufficient energy. There is no evidence to suggest that butane is sensitive to shocks. By fire: Protect against potentially toxic and irritating fumes.
Special protective equipment and ..... precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Cool fire-exposed containers with cold water spray. Heat will cause pressure build up and may cause explosive rupture. Eliminate all ignition sources if safe to do so. Cut off gas supply if safe to do so. Use self-contained breathing apparatus and full firefighting gear. Decomposition and combustion products may be toxic. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective ..... equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). No flares, smoking or flames in hazard area. Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment.
Methods and materials for containment .. and cleaning up	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Ventilate area. If the leak cannot be stopped, bring the compressed gas cylinder to an isolated location away from ignition or ignition, allow the gas to slowly escape and ventilate.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Exposure to this product requires prior training and information. Read the information on the label and the safety data sheet before handling this product. Contains gas under pressure. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.
Conditions for safe storage, including any incompatibilities	Contents under pressure. Store in accordance with local regulations. Store in a segregated and approved area. Store away from all sources of heat and ignition. Store away from direct sunlight. Store away from incompatible materials . Keep container tightly closed in a well ventilated area.

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Butane	1000 ppm		800 ppm		800 ppm
	ON: STEL 1000 ppm / Explosion hazard				

Appropriate engineering controls..... Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of 'Industrial Ventilation, a manual of Recommended Practice. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion -proof ventilation equipment.

Individual protection measures, such as personal protective equipment

Eye/Type..... Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Gloves/Type..... Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. Contact glove supplier for additional information.

Footwear/Type..... Wear safety boots per local regulations.

Clothing/Type ..... Wear adequate protective clothing to prevent skin contact. Anti-static clothing.

Respiratory/Type..... Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Wear air-supply respirators if concentration in the workplace is likely to cause asphyxiation.

Other/Type..... Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Emergency eye wash station and shower should be available. Anyone handling this product should wash their hands and face before eating, drinking or using tobacco products. NO SMOKING.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / physical state ..... Gas. Liquefied.
Colour..... Colorless.
Odour..... Odour added.
Odour Threshold (ppm)..... Not available.
pH..... Not applicable.
Melting/Freezing Point..... -135 °C.
Initial Boiling Point/Boiling Range..... -0.5 °C.
Flash Point (deg C), Method..... -60°C (-76°F).
Evaporation Rate..... Not available.
Flammability (solid/gas)..... Extremely flammable gas.
Upper Flammable Limit (% Vol)..... 8.5.
Lower Flammable Limit (% Vol)..... 1.8.
Vapour Pressure (mm Hg)..... Not available.
Vapour Density (Air=1)..... ~2.
Relative Density/Specific Gravity..... Not available.
Solubility..... Slight.
Coefficient of Water/Oil Distribution..... Not available.
Auto Ignition Temperature (deg C)..... >287 °C.
Decomposition temperature..... Not available.
Viscosity..... Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... Contains gas under pressure; may explode if heated. Reacts with oxidants causing fire and explosion hazard.

Chemical stability..... Stable at normal temperatures and pressures.

Possibility of hazardous reactions..... Will not polymerize.

Conditions to avoid, including static discharge, shock or vibration ..... Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Static discharge. Avoid direct sun.

Incompatible materials..... Strong oxidizing agents. Strong bases.

Hazardous decomposition products..... No hazardous decomposition products if stored and handled as prescribed/indicated. By fire:. Carbon dioxide, carbon monoxide.

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Butane	658,000 mg/m3, rat (4 hr)	Not available

Route of Exposure..... Skin contact, eye contact, inhalation.
ATEs..... Not determined.
Symptoms related to the physical, chemical and toxicological characteristics:
Effects of Acute Exposure..... Harmful if inhaled. The main symptoms associated with simple asphyxia are headache, nausea, dizziness, incoordination, breathing difficulties, loss of consciousness and possibly anoxia-related death. This product is not irritating but there is possibility of frostbite in contact with the liquefied gas. Harmful if absorbed through the skin .
Effects of Chronic Exposure..... Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
Sensitization..... None expected.
Mutagenicity..... No known mutagenicity effects.
Reproductive Effects..... No known reproductive effects. .
Carcinogenicity of Material..... None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA OR ACGIH as a carcinogen.
Specific Target Organ Toxicity - single exposure ..... This information, if applicable, can be found in Section 2.
Specific Target Organ Toxicity - repeated exposure This information, if applicable, can be found in Section 2.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... No product data availalbe. Discharge into the environment must be avoided. .
Persistence and degradability..... Product data not available.
Bioaccumulation Potential..... Product data not available.
Mobility in soil..... Product data not available.
Other adverse effects..... Product data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTIC OR GAS TORCH.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN2037 - GAS CARTRIDGES, Class 2.1. Limited Quantity: 0.125 L . Refer to Part 1 (s. 1.17) of Transportation of Dangerous Goods Regulations for additional information.
Transport in bulk / IBC Code..... No data available.

SECTION 15: REGULATORY INFORMATION

CEPA Status..... Not reviewed.
TSCA Inventory Status..... Not reviewed.

SECTION 16: OTHER INFORMATION

Prepared by ..... Trivalent Data Systems Ltd. http://www.trivalent.com . Information based on suppliers SDS.
Disclaimer..... Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. .
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