MATERIAL SAFETY DATA SHEET

Section I Emergency

Supplier's Name: ARROWHEAD LP GAS Phone Number: 907-826-2944

Address: 1600 CRAIG-KLAWOCK HIGHWAY, CRAIG, ALASKA 99921

Chemical Name: <u>LIQUEFIED PETROLEUM GAS OR PROPANE</u> Formula: C3H4

CAS Registry No.: 74-98-6 Chemical Family: Hydrocarbon

WARNING: Danger! Extremely flammable. Compressed HEALTH HAZARD 1

Gas Asphyxiant in high concentrations. Contact with FIRE HAZARD 4 liquid causes burns similar to frost bite. OSHA permissible REACTIVITY 0

exposure limit (PEL) 1000 PPM for an 8-hour work day.

Appearance and Odor: <u>Vapor and liquid are colorless.</u> 4 – Severe 1 – Slight Product contains an odorant (unpleasant odor). 3 – Serious 0 – Minimal

2 – Moderate

Section II HAZARDOUS INGREDIENTS

Hazardous Mixtures: Air with 2.15 to 9.60 percent propane

Section III PHYSICAL DATA

Section IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156 degrees F (CC)

Flammable Limits - LFL: 2.15 UFL: 9.60 Extinguishing Media: Water spray-Class A-B-C or BC fire extinguisher.

Specific Fire Fighting Procedures: Stop flow of gas. Use water to keep fire exposed containers cool. Use water spray to disperse unignited gas or vapor. If ignition has occurred and no water available, tank metal may weaken from overheating. Evacuate area. If gas has not ignited, LP-gas liquid or vapor may be dispersed by water spray or flooding.

Decomposition Products under Fire Conditions: <u>Fumes, smoke, carbon monoxide, aldehydes and other decomposition products, in the case of incomplete combustion or when used as an engine fuel.</u>

"EMPTY" Container Warning: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. All containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

Section V HEALTH HAZARD

OSHA P.E.L.: 1000 PPM ACGIHTLV: 1000 PPM Effects of Overexposure: Inhalation - concentrations can lead to symptoms ranging from dizziness to anesthesia and respiratory arrest. Eyes: moderate irritation. Emergency & First Air Procedures: Inhalation - remove to fresh air. Guard against self injury. Apply artificial respiration if breathing has stopped.

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Section VI	REACTIVITY DATA
	e: Hazardous Decomposition Products: None
	to avoid): Mixing with oxygen or air, except at burner
Hazardous Polmerization:	May occur Will not occur X
Section VII	SPILL OR LEAK PROCEDURES
Steps to be taken in case r	naterial is released: Keep public away. Shut off supply of gas. Eliminate sources of
ignition. Ventilate the area	a. Disperse with water spray. Contact between skin and these gases in liquid form can
cause freezing of tissue ca	using injury similar to thermal burn.
Water Disposal Method:	Controlled burning. Contract supplier.
Section VIII	SPECIAL PROTECTION INFORMATION
keep sources of ignition at	tay out of gas or vapor (because of fire hazard). Ventilation: Explosion-proof motors and safe distances. Personal Protective Equipment and Apparel: Gloves resistant to the eles for protection against accidental release of pressurized products.
Section IX	SPECIAL PRECAUTIONS
Precautions to be taken wh	hen handling and storing: Keep containers away from heat sources and store in upright
	ld not be dropped. Keep container valve closed when not in use. Other Precautions:
_	plug container service valve when not connected for use.
Section X	TOXICOLOGICAL INFORMATION
OSHA Carcinogen classif	ication (29 CFR 1910) not listed/applicableX
_	n (21CFR 184.1655): Generally recognized as safe (GRAS) as a direct human food
	propellant, aerating agent and gas as defined in Section 170.3(o)(25).
Section XI	DOT LABELING INFORMATION (49 CFR 100-199)
Proper shipping name:	<u>Liquefied Petroleum Gas</u> Identification No.: <u>UN1075</u>
Hazardous Classification:	

Section XII ISSUE INFORMATION

Issue Date: October 16, 1996

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