

Appendix A-Propane Material Safety Data Sheet

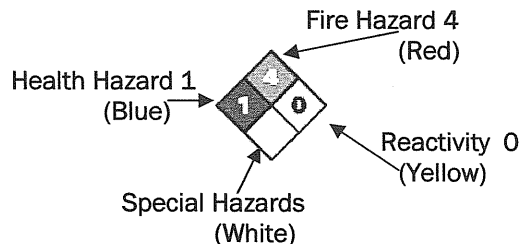
Section I

MATERIAL SAFETY DATA SHEETS

Supplier's Name: DOUGLASS DISTRIBUTING Emergency Phone#: (800) 736-4316
Address: 325 EAST FOREST AVENUE SHERMAN, TX 75090
Chemical Name: LIQUEFIED PETROLEUM GAS or PROPANE Formula: C3H8
CAS Registry No: 74-98-6 Chemical Family: Hydrocarbon

WARNING: Danger! Extremely flammable.

Compressed gas, under pressure, Asphyxiant in high concentrations. Contact with liquid causes burns similar to frostbite. OSHA permissible exposure limit (PEL) 1000ppm for 8-hour workday.



Appearance and Odor: Vapor and Liquid are colorless. 4=Severe 3=Serous 2=Moderate 1=Slight 0=Minimal
Product contains an odorant (unpleasant odor).

Section II

HAZARDOUS INGREDIENTS

Hazardous Mixtures: Air with 2.15 to 9.60 percent propane.

Section III

PHYSICAL DATA

Boiling Point: -44 °F
Vapor Pressure (PSIG) at 100 °F: 205
Specific Gravity (H2O=1): 0.51
Percent Volatile by Volume (%): 100
Vapor Density (air = 1): 1.52
Solubility in Water: Slight
Evaporation rate: Gas at normal ambient temperatures

Section IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156 °F (-104 °C) Classification: Flammable Gas UN 1075
Flammable Limits: LFL: 2.15% UFL: 9.6%
Extinguishing Media: Water spray; Class A:B:C or B:C fire extinguisher
SPECIAL FIRE-FIGHTING PROCEDURES: Stop flow of gas. Use water to keep fire-exposed containers cool. Use water spray to disperse un-ignited gas or vapor. If ignition has occurred and no water is 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: Fumes, smoke, carbon monoxide, aldehydes and other decomposition products, in the case of incomplete combustion or when used as an engine fuel.

"EMPTY" Container warning: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SODDER, 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 ACGIII TLV: 1000 PPM (Effects of Overexposure): Inhalation - concentrations can lead to symptoms ranging from dizziness to anesthesia and respiratory arrest. Eyes - moderate irritation. Emergency & First Aid procedures: Inhalation - remove to fresh air. Guard against self-injury. Apply artificial respiration if breathing has stopped.

Section VIREACTIVITY DATA

Stable: Unstable: Hazardous Decomposition Products: None
 Incompatibility (materials to avoid): Mixing with oxygen or air, except at burner
 Hazardous Polymerization: May occur Will not occur

Section VIISPILL OR LEAK PROCEDURES

Steps to be taken in case material is released: Keep public away. Shut off supply of gas. Eliminate sources of ignition. Ventilate the area. Disperse with water spray. Contact between skin and gas in liquid form can cause freezing of tissue causing injury similar to thermal burn.
 Waste disposal method: Controlled burning. Contact supplier.

Section VIIISPECIAL PROTECTION INFORMATION

Respiratory Protection: Stay out of gas or vapor (because of fire hazard). Ventilation: Explosion-proof motors and keep sources of ignition at safe distances. Personal Protective Equipment and Apparel: Gloves resistant to the action of LP-gases, goggles and protection against accidental release of pressurized products.

Section IXSPECIAL PRECAUTIONS

Precautions to be taken when handling and storing: Keep containers away from heat sources and store in upright position. Containers should not be dropped. Keep container valve closed when not in use.
 Other Precautions: Install protective caps when not connected for use.

Section XTOXICOLOGICAL INFORMATION

OSHA Carcinogen Classification (29 CFR 1910): Not listed/applicable
 U.S. Department of Health (21 CFR 184.1655): Generally recognized as safe (GRAS) as direct human food ingredient when used as a propellant, aerating agent and as gas defined in Section 170.3 (o) (25).

Section XIDOT LABELING INFORMATION (49 CFR 100-199)

Proper Shipping name: Liquefied Petroleum Gas Identification No.: UN 1075
 Hazardous Classification: Flammable Gas Label(s) Required: Flammable Gas

Section XIIISSUE INFORMATION

Issue Date: _____

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