450101

DATE

# MATERIAL SAFETY DATA SHEET

CHEMWELD, INC. 4530 BERKELEY LAKE RD P.O. BOX 1127 NORG

# A. IDENTIFICATION AND EMERGENCY INFORMAT

PRODUCT NAME: Chem-O-Lene Fuel Gas PRODUCT CATEGORY: Liquefied Petroleum Gas

PRODUCT APPEARANCE AND ODOR: Vapor and liquid are colorless. Product co

EMERGENCY TELEPHONE NUMBER: 800/241-4919 or 770/662-0370

# B. COMPONENTS AND HAZARD INFORMATIO

	COMPONENTS:	CAS MO. OF COMPONENTS:	Α	PPR
		CONCENTRATION:		
	Propane	74986		8.
	Xylene	1330-20-7		.01
	Ethane	78-84-0		
	Propylene	115071		
	Butanes	106978		
	Pentane	109-66-0		

This product, as sold by Chemweld, in not listed as a carcinogen.

All components of this product are listed on the U.S. TSCA inventory.

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

# EXPOSURE LIMIT FOR TOTAL PRODUCT:

OSHA permissible exposure limit (PEL) 1000 ppm for an 8-hour wor

# C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND PROCEDURES

# EYE CONTACT:

If liquid gets into eyes, contact a physician immediately.

### SKIN:

In case of excessive skin contact with liquid, immediately contact a physicis frostbite.

#### INHALATION:

If overcome by vapor, remove from exposure and call a physician immediat irregular or has stopped, start resuscitation, administer oxygen, if available.

### INGESTION:

If ingested, do not induce vomiting, call a physician immediately.

# D. FIRE AND EXPLOSION HAZARD INFORMATION

UNUSUAL FIRE AND EXPLOSION HAZARD:

EXTREMELY FLAMMABLE - VAPORS CAN TRAVEL AND EXPLODE

FLASHPOINT (MINIMUM) -156 Degrees F (CC)

Flammable Gas UN 1075

CLASSIFICATION:

# CAUTION

Defective or improperly installed Chem-O-Lene equipment can cause leakage, resulting in asphyxiation, fire, or explosion; poorly vented equipment or incomplete combustion my product a build up of deadly carbon monoxide.

# HANDLING PRECAUTIONS

This liquid is volatile and gives of invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

### DETECTION INFORMATION: Because of the hazardous nature of propane, an odorant, or "stenching agent" is added to help detect a

potentially hazardous leak. Chemweld, like many other propane dealers, uses ethyl mercaptan as the odorant, having it added in a ratio of 1.5 lb. per 10,000 gallons of propane - well above the minimum of 1.0 lb. per 10,000 gallons recommended by the National Fire Protection Association (NFPA).

be exclusively relied on as a safety measure. This fact is recognized by the NFPA, which states in its " Standard for the Storage and Handling of Liquefied Petroleum Gases:" that "no odorant will be completely effective as a warning agent in every circumstance."-It is therefore essential that Chem-O-Lene be used and handled in strict adherence to the safety procedures

However, ethyl mercaptan, or any other odorant, may not be effective in all cases all the time and must not

established by appropriate federal agencies and industrial organizations, such as NFPA. Codes, standards and recommended practices regarding propane are contained in the "National Fire Codes," published by the NFPA, Batterymarch Park, Quincy, MA 02269.

FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values: Lower Flammable Limit 2.15% Upper Flammable Limit: 9.60%

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Stop flow of gas. Use water to keep fire-exposed containers cool and to protect men effecting the shutoff. If a leak or spill has not ignited, use water spray to disperse the gas or yapor and to protect men attempting to stop a leak. Minimize breathing gases, vapor, fumes or decomposition products. Use supplies-air breathing equipment for enclosed or confined spaces or as other wise needed.

# DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide, sulphur oxides, alderhydes and other decomposition products, in the

### "EMPTY" CONTAINER WARNING:

"Empty" containers retain residue (Liquid and/or vapor) and weld, braze, solder, drill, grind or expose such containers to sources of ignition; they may explode and cause injury or ded difficult to remove. All containers should be disposed of in a accordance with governmental regulations. For work on tan Administration regulations, ANSI Z49 1, and other governmental cleaning, repairing, welding, or other contemplated operations.

# E. HEALTH AND HAZARD

# VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbo human health risks which may vary from person to person, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTOR Overexposure may cause gasping, disorientation, unconscionasphyxiation. Exposure to rapidly expanding gas or vaporize

NATURE OF HAZARD AND TOXICITY INFORMATION Prolonged or repeated skin contact with this product tends to

irritation and dermatitis; however, based on human experier product is judged to be neither a "corrosive" nor an "irritant

Product contacting the eyes may cause eye irritation.

Based on scientific literature, this product should be regarded is capable of producing drowsiness or similar effects at cond for protection and precautions.

Product has a low order of acute inhalation toxicity. It is cl Conference of Governmental Industrial Hygienists.

This product is judged to have an inhalation LC50 (rat) gre

Inhalation of components of exhaust from burning, such as concentrations. Exposure to the exhaust of this fuel should

Continued exposure to odorized gases may result in the inal hazardous concentration. Proper respiratory protection, fire whenever gas odor is first detected.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY

# F. PHYSICAL DATA

lowing data are approximate or typical values and should not be used for NG RANGE: VAPOR PRESSURE:

ASTM D 1267

Gas at normal ambient con

CORROSION - Copper St

Maximum classification o

SOLUBILITY IN WATER (a) 1 A

25 C (77 F) yn-BUTYLACETATE

Negligible; less than 0.1%

G. REACTIVITY

H. ENVIRONMENTAL INFORMATION

FIC GRAVITY (15.6 C/15.6): VAPOR DENSITY (AIR =1) 0.50 1.5

PERCENT VOLATILE BY VOLU

100

ximately 45 EVAPORATION RATE @ 1 ATM

(n-BUTYL ACETATE =1):

product is stable and will not react violently with water. Hazardous polyn contact with strong oxidants such as liquid chloring, concentrated oxygen

S TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: off and eliminate all ignition sources, Keep people away. Minimize brea ontact. Ventilate confined spaces. Open all windows and doors. Refer to

ery high volatility of this material will cause extremely rapid evaporation

ollowing information may be useful in complying with various state and f

ESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFF

IC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR No toxic chemical is present greater than 1% or 0.1% (Carcinogen).

ARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370

No TPQ for product or any constituent greater than 1% or 0.1% (Car

m hypochlorite, etc., as this presents a serious explosion hazard.

ially neutral

ING POT:

:YTIZC

etermined

CONGEALING OR

ambient temperature

xplosion hazards.

od is needed or should be attempted.

various environmental statues:

CULAR WEIGHT:

(34 F) FBP

Approximately 208 PSIG @ 100 F cimately -45 C (-49 F) lBP

### 1. PROTECTION AND PRECAUTIONS

### NTILATION:

e only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of closive concentrations of vapor in air. No smoking, or use of other ignition sources.

### SPIRATORY PROTECTION:

e supplied-air respiratory protection in confined or enclosed spaces, when concentrations exceed 2100 M (3780 mg/m3).

#### OTECTIVE GLOVES:

e chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

#### E PROTECTION:

fety glasses recommended.

# HER PROTECTIVE EQUIPMENT:

e chemical-resistant apron or other clothing, if needed, to avoid skin contact (frostbite protection).

### ORK PRACTICES/ENGINEERING CONTROLS:

INGER: This product is a compressed gas. Do not store near heat, sparks, flame or strong oxidants.

minimize fire or explosion risk from static charge accumulation and discharge, effectively ground aduct transfer system in accordance with the National Fire Protection Association standard for troleum Products.

e very high volatility of this material will cause extremely rapid evaporation. Keep containers closed ien not in use. Do not fill or store near heat, sparks, flame or strong oxidants. Avoid creating static extricity.

order to prevent fire or explosion hazards use appropriate equipment. Information on electrical uipment appropriate for use with this product may be found in the latest edition of the National ectrical Code (NFPA-70). This document is available from the National Fire Protection Association, atterymarch, Quincy, Massachusetts 02269

### RSONAL HYGIENE:

inimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated othing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry fore reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period.

## J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

# RANSPORTATION INCIDENT INFORMATION:

or further information relative to spills resulting from transportation incidents, refer to latest Department Transportation Emergency Response Guidebook for hazardous Materials Incidents. In compliance with hazard and right-to-know requirements, where applicable OSH4 may be found on the label, bill of lading or invoice accompany this shipment.

DANGER!

### EXTREMELY FLAMMABLE

# ASPHYXIANT

# MATERIAL REDUCES OXYGEN AVAILABLE FOR BREATH PROLONGED CONTACT MY CAUSE FROSTBITE

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Chemwe belief, accurate and reliable as of the date issued. Chemweld does not warrant or gu or reliability, and Chemweld shall not be liable for any loss or damage arising out or

The information and recommendations are offered for the users's considerations and is the user's responsibility to satisfy itself that they are suitable and complete for its pluyer repackages this product, legal council should be consulted to insure proper he necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Haz Identification system (HMIS) and National Fire Protection Association (NFPA) ratio by Chemweld, Inc. in order to provide additional health and hazard classification in