Coast Oil Company, LLC

(408)847-0513

MATERIAL SAFETY DATA SHEET FOR ODORIZED PROPANE

CHRICAL PRODUCT SHE COMPANY DEMINICATION

Product Name: Odorized Commercial Propane

Chemical Name: Propence

Chemical Family: Paraffinic Hydrocarbon

Formula: C3H8

Synonyms: Dimethylmethane, LP-Gas, Liquefied Petroleum Gas (LPG), Propane, Propyl Hydride

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Name & Address:	Transportation Emergency Number:	Emergency Number:	
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	BITION/INFORMATION	ONCINCED IN THE PROPERTY OF TH	
ingredient name	PERCENTAGE	osea pel	acgifi tlv
CAS NUMBER Propane/74-98-6	87.5-100		Simple asphyxiant
Ethano/74-84-0	0-5.0	mqq 000,1	Simple asphyxiant
Propylene/115-07-1	0-10.0	I indd then	Simple usphyximic
Butanes/yarious	0-2,5		Simple asphyxiant
Etbyl Mercaptan/75-08-1		0.5 ppm	O.≤ ppm

32 MAZARDS IDENTIFICATION

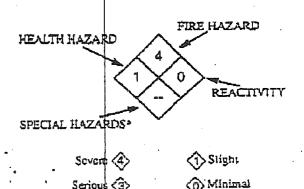
EMERCENCY OVERVIEW

DANGER! Flammable liquefied gas under pressure. Keep away from heat, sparks, flame, and all other ignition sources. Vapor replaces oxygen available for breathing and may cause suffocation in confined spaces. Use only with adequate ventilation. Oder may not provide adequate warning of potentially bazardous concentrations. Vapor is heavier than eig. Liquid can cause freeze burn similar to frostbite. Do not get liquid in eyes, on skin, or on clothing. Avoid breathing of vapor. Keep container valve closed when not in use.

POTENTIAL HEALTH EFFECTS INFORMATION

ROUTES OF EXPOSURE:

Inhulation: Asphysiant. It should be noted that before sufficiation could occur the lower flammability limit of propane in air would be exceeded, possibly causing both an oxygen-deficient and explosive autosphere. Exposure to concentrations > 10% may cause dizziness. Exposure to atmospheres containing 8%-10% or less oxygen will bring about unconsciousness without warning, and so cuickly that the individuals cannot belp or protect themselves. Luck of sufficient oxygen may cause serious injury or death.



Moderate (2)

(Ref. NFPA 704)

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Eye Contact: Contact with liquid can cause freezing of vissue.

Skin Contact: Contact with liquid can cause frostbue.

[Skin Absorption]: None.

[Ingestion]: Liquid can cause freeze burn similar to frostbire. Ingestion not expected to becur in normal use.

CHRONIC EFFECTS: None.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None.

OTHER EFFECTS OF OVEREXPOSURE: None.

CARCINOGENICITY: Propage is not listed by NTP, OSHA or IARC.

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INHALATION: Persons suffering from lack of oxygen should be removed to fresh air. If victim is not breathing, administer artificial respiration. If breathing is difficult, administer exygen. Obtain prompt medical attention.

EYE CONTACT: Contact with liquid can cause freezing of tissue. Gently flush eyes with lukewarm water.

Obtain medical attention immediately.

SKIN CONTACT: Contact with liquid can cause frostbite. Remove samuated clothes, stides and jewelry. Immerse affected area in lukewarm water not exceeding 105° F. Keep immersed, Get prompt medical attention.

INGESTION: Il swallowed, get immediate medical attention.

NOTES TO PHYSICIAN: None.

S THE FORTHO MEASURES

FLASH POINT: -156" F (-104" C)

AUTOIGNETION: 842" # (432" C)

IGNITION TEMPERATURE IN AIR: 920-1120' F

FLAMMABLE LIMITS IN AIR BY VOLUME: Lewer: 2.15%

Upper: 96%

EXTINGUISHING MEDIA: Dry chemical, CO2, water spray or log for surrounding cree. Do not extinguish fixe until

propane source is shut off. SPECIAL FIRE-FIGHTING INSTRUCTIONS: Evacuate personnel from danger area. Immediately cool container with water spray from maximum distance, taking care not to extinguish flames. If flames are accidentally extinguished, explosive realignition may occur. Where water is abundant and immediate, the fire should be allowed to burn while the container and area are cooled and the flow of propage is shut off. Where water is searce, compare the risk of allowing the area to continue to beat from the fire and the alternative of extinguishing the fire without shutting off the properly flow, which may allow for the propane to accumulate and re-ignite explosively.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Propage is easily ignited. It is heavier than air, therefore, it can collect in low areas where an ignition source can be present Pressure in a comminer can build up due to hear and container may suprime. if pressure relief devices should fuil to function. Propane released from a properly functioning relief valve on an overheated container can also become ignited.

HAZARDOUS COMBUSTION PRODUCTS: None.

S ACCULTAT RETATE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Evacuate the imprediate area. Eliminate any possible sources of ignition and provide maximum ventilation. Shut off source of propane, if possible, if leaking from container, or valve, contact your supplier.

TOROL STORAGE

HANDLING PRECAUTIONS: Propane vapor is beavier than air and can collect in low great that are without sufficient ventilation. Leak-check system with a leak detector or solution, never with flame. Make certain the container service valve is abut off prior to connecting or disconnecting. If container valve does not operate properly, discontinue use and contact supplier. Never insert an object (2.5, wrench, screwdriver, pry bar, etc.) into pressure relief valve or cylinder valve cap openings. Do not drop or abuse cylinders. Never strike an arc on a gas container or make a container part of an electrical circuit. See "16. OTHER INFORMATION" for additional precautions.

(408)847-0513

p.3

STORAGE PRECAUTIONS: Store in a safe, authorized location (outside, detached storage is preferred) with adequate ventilation. Specific requirements are listed in NFPA 58, Standard for the Storage and Handling of Liquefied Petroleum Gases. Isolate from heat and ignition sources. Containers should never be allowed to reach temperature exceeding 125° F (52° C). Isolate from combustible materials. Provide separate storage locations for other compressed and flammable gases. Propane containers should be separated from oxygen cylinders, or other exidizers, by a minimum distance of 20 feet, or by a barrier of non-combustible material at least 5 feet high having a fire rating of at least 1/2 hour. Full and empty cylinders should be segregated. Store cylinders in upright position, or with pressure relief valve in super space. Do not drop or abuse cylinders. Keep container valve closed and plugged or capped when not in use. Install protective caps when cylinders are not connected for use. Empty containers retain some residue and should be treated as if they were full.

9. EXPOSURE CONTROL PERSONAL PROTECTION

ENGINEERING CONTROLS

Ventilation: Provide ventilation adequate to ensure propane does not reach a flammable mixture.

RESPIRATORY PROTECTION (SPECIFY TYPE)

General Use: None.

Emergency Use: If concentrations are high enough to warrant supplied-air or self-contained breathing apparatus, then the atmosphere may be fiantimable (See Section 5). Appropriate precautions must be taken regarding flammability.

PROTECTIVE CLOTHING: Avoid skin contact with liquid propane because of possibility of freeze burn. Wear gloves and protective clothing which are impervious to the product for the duration of the anticipated exposure.

EYE PROTECTION: Safety glasses are recommended when bandling cylinders.

OTHER PROTECTIVE EQUIPMENT: Safety shoes are recommended when handling cylinders.

9. Physical and Chemical Properties

BOILING POINT: @ 14.7 psia = -44" F

SPECIFIC GRAVITY OF YAPOR (Air = 1) at 60° F: 1.50

SPECIFIC GRAVITY OF LIQUID (Water = 1) at 60° F: 0.504

VAPOR PRESSURE: @ 70°F = 127 psig

'@ 105" F = 210 psig .

EXPANSION RATIO (From liquid to gas @ 14.7 psia): 1 to 270

SOLUBILITY IN WATER: Slight, 0.1 to 1.0%

APPEARANCE AND ODOR: A colorless and tasteless gas at normal temperature and pressure.

An odorant (ethyl mercaptan) has been added to provide a strong unpleasant odor. Should a propone-air mixture reach the lower limits of flammability, the ethyl mercaptan concentration will be approximately 0.5 ppm in air.

ODORANT WARNING: Odorant is added to aid in the detection of leaks. One common odorant is ethyl mercaptan. CAS No. 75-08-01. Odorant has a foul smell. The ability of people to detect odors varies widely. Also, certain chemical reactions with material in the propane system, or fugitive propane gas from underground leaks passing through certain soils, can reduce the odor level. No odorant will be 100% effective in all circumstances. If odorant appears to be weak, notify propane supplier immediately.

THE PROPERTY AND REACTIVES

STABULTTY: Suble.

Conditions to Avoid: Keep away from high hear, strong oxidizing agents and sources of Ignition.

REACTIVITY:

Hazardous Decomposition Products: Under fire conditions, fumes, smoke, carbon monoxide, aldehydes and other decomposition products. When used as an engine fuel, incomplete combustion can cause carbon monoxide, a toxic gas. Hazardous polymerization: Will not occur.

3

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Propane is non-taxic and is a simple asphyxiant, however, it does have slight anesthetic properties and higher concentrations may cause dizziness.

[IRRITANCY OF MATERIAL]: None.

(SENSITIZATION TO MATERIAL): None

[REPRODUCTIVE EFFECTS]: None

[TERATOGENICITY]: None

[MUTAGENICITY]: None

[SYNERGISTIC MATERIALS]: None

125 ECOLOGICAL INFORMATION

No adverse ecological effects are expected. Propane does not contain any Class I or Class II ozone-depleting chemicals (40 CFR Part 82). Propage is not listed as a marine pollutant by DOT (49 CFR Part 171).

3. Disposat Considerations:

WASTE DISPOSAL METHOD: Do not attempt to dispose of residual or unused product in the container. Return to supplier for safe disposal.

Residual product within process system may be burned at a controlled rate, if a suitable burning unit (flare stack) is available on site. This shall be done in accordance with federal, state and local regulations.

TA SCHARSPORT INPORTATION

DOT SHIPPING NAME: Liquefied Petroloum Gas

DENTIFICATION NUMBER: UN 1075

IMO SHIPPING NAME: Propane

IMO IDENTIFICATION NUMBER: UN 1978

BAZARD CLASS: 2.1 (Flammable Gas)

SHIPPING LABEL(S): Flammable gas PRODUCT RO: None

PLACARD (WHEN REQUIRED): Flammable 925

SPECIAL SHIPPING INFORMATION: Container should be transported in a secure, upright position in a well-ventilated vehicle,

EL REGULATORY INFORMATION

The following information concerns sulcould regulatory requirements potentially applicable to this product. Not all such requirements are identified. Users of this product are responsible for their own regulatory compliance on a federal, state [provincial] and total level.

U.S. FEDERAL REGULATIONS

EPA Environmental Protection Agency

CERCLA Comprehensive Environmental Response. Compensation and Liability Act of 1980

(40 CFR Parts 117 and 302)

Reportable Quantity (RQ): None

Superfund Amendment and Reauthorization Act SARA

- SECTION 302/304: Requires emergency planning on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40 CFR Part 355).

Extremely Hazardous Substances: None

Threshold Planning Quantity (TPQ): None

· SECTIONS 311/312: Require submission of material safety data sheets (MSDSs) and chemical inventory reporting with identification of EPA-dufined hazard classes (40 CFR Part 370). The hazard classes for this product are:

EMMEDIATE: No

PRESSURE: Yes

DELAYED: No

REACTIVITY: No

FLAMMABLE: Yes

APR-29-2009(WED) 16:42 COAST OIL COMPANY Apr 29 09 04:31p Coasi Oil Company, LLC

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P. 005/007

p.5

FROM : DASSEL'S

FAX NO. : 931 636 5116

Jun. 15 1999 10:26AM P2

- SECTION 313: Requires submission of annual reports of release of toxic chemicals that appear in 40 CFR Part 372.

Propane does not require reporting under Section 313.

40 CFR PART 68 Risk Management for Chemical Accidental Release

TSCA Toxic Substance Control Act

Propage is listed on the TSCA inventory.

OSHA Occupational Safety and Health Administration

29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals.

FDA Food and Drug Administration

21 CFR 184.1655: Generally recognized as safe (GRAS) as a direct human food ingredient when used as a propellant. aerating agent and gas.

16. OTHER EMPORMATION

SPECIAL PRECAUTIONS: Use piping and equipment adequately designed to withstand pressure to be encountered.

NFPA 58 Standard for the Storage and Handling of Liquefielt Perryleum Gases and OSHA 29 CFR 1910,10 require that all persons employed in handling LP-gases be mained in proper handling and operating procedures, which the employer shall document. Contact your propage supplier to arrange for the required training. Allow only trained and qualified persons to install and service propane containers and systems.

WARNING: Be aware that with odorized propane the Intensity of ethyl mercaptan suche (its odor) may fade due to chemical axidation (in the presence of rust air or moisture), adsorption or absorption. Some people have nasal perception problems and may not be able to smell the ethyl mercaptan stench. Leaking propose from underground gas lines may lose its odor as it passes through certain soils. While ethyl mercaptan may not impart the warning of the presence of propane in every instance, it is generally effective in a majority of situations. Familiarize yourself, your employees and customers with this warning, and other facts associated with the so-called "odor-fade" phenomenon, if you do not attendy know all the facts, contact your propage supplier for more information about odor, electronic gas alarms and other safety considerations associated with the handling, storage and use of propane.

ISSUE INFORMATION

Issue	Date:
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This material safety data sheet and the information it commins is offered to you in good faith as accurate. This Supplier does not manufacture this product but is a supplier of the product independently manufactured by others. Much of the information contained in this data sheet was received from sources outside our Company. To the best of our knowledge this information is accurate, but this Supplier does not guarantee its accuracy or completeness, Health and sefery procautions in this data sheet way not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely, comply with all applicable laws and regulations and to assume the risks involved in the use of this product.

NO WARRANTY OR MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSES, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF COMPLETENESS OF THIS INFORMATION. THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT. THE SAFETY OF THIS PRODUCT. OR THE HAZARDS RELATED TO ITS USE.

Propared by NATIONAL PROPANE CAS ASSOCIATION

1600 Elseabower Lane, Sune 100, Liste. Illinois 60532 Phone 630/515-0600

Princed in U.S.A.

The purpose of this bulletin is to set forth general safety practices for the installation, operation, and maintenance of LP-gas equipment. It is not intended to be an exhaustive treatment of the subject, and should not be interpreted as precluding other procedures which would enhance sego LP-gas operations. Issuance of this bulletin is not intended to not should it be construed as an undertaking to perform services on behalf of any party alther for their protection or for the protection of third parties. The National Propose Gas Association assumes no Hability for reliance on the contents of this bulletin.

Issued 12/96

P. 006/00/ p.6

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NPGA #210-96

MATERIAL SAFETY DATA SHEET MSDS FOR ODORIZED PROPANE

Health Administration Hazard Communication Standard published November 23, 1983 (Title 29 CFR Part 1910).

Chemical Manufacturers, Importers, and Distributors must have complied by November 25, 1985. All manufacturing employers covered by the Standard (SIC Codes 20-39) must have complied by May 25, 1986.

The Standard was amended August 24, 1987 (Vol. 52, Federal Register, page 31852) to extend its application beyond the manufacturing sector and to include all employers where chemicals are either used, distributed, or are produced for use or distribution, effective May 23, 1988.

Also for complying with the requirements of the Environmental Protection Agency Community Right to Know rules published October 15, 1987 (Vol. 52, Federal Register, page 38344) under Title III of the Superfund Amendments and Reauthorization Act of 1986 (Public Law 99-499).

INSTRUCTIONS TO SUPPLIER USING THE MISDS

- Insert Supplier Name, Address, and Emergency Phone Number in "1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION."
- · Insert issue date on last page of MSDS.
- · Have copies reproduced for distribution.