



SAFETY DATA SHEET ODORIZED PROPANE

Revision Date: 1/10/2025

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

JS West and Companies
501 9th Street
Modesto, CA 95354

Emergency Phone: **800-633-8253**
Technical Information: **800-675-9378**
SDS Information: **800-675-9378**

PRODUCT NAME: Propane (odorized)

CHEMICAL NAME: Hydrocarbon

CHEMICAL FORMULA: C₃H₈

CHEMICAL FAMILY: Liquefied Petroleum Gas (Paraffin Hydrocarbons)

Section 2 - HAZARD IDENTIFICATION

Pictogram (s)



Signal Word:

DANGER

GHS Classification:

Flammable Gas - Category 1
Gases Under Pressure - Liquefied Gas

Hazard Statements

Extremely flammable gas
Contains gas under pressure; may explode if heated

Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces - No Smoking
Leaking gas fire: Do not extinguish, unless leak can be stopped safely
In case of leaking gas fire, eliminate all ignition sources if safe to do so
Store in a well ventilated place
Protect from sunlight. Store in a well-ventilated place

EMERGENCY 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. Reliance upon detection of odor may not provide adequate warning of potentially hazardous concentrations. Vapor is heavier than air; may collect at low levels. Liquid can cause freeze burn similar to frostbite. Do not get liquid in eyes, on skin, or on clothing. Avoid breathing vapor. Keep service valve closed when not in use.

Section 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Name	CAS Number	PERCENTAGE	CLASSIFICATION (GHS)
Propane	74-98-6	87.5 - 100	Simple Asphyxiant, H380 Flammable Gas 1, H220 Compressed Gas, H280
Ethane	74-84-0	0 - 7.0	Flammable Gas 1, H220 Compressed gas, H280

Name	CAS Number	PERCENTAGE	CLASSIFICATION (GHS)
Propylene	115-07-1	0 - 5.0	Flammable Gas 1, H220 Compressed gas, H280
Butanes	106-97-8	0 - 2.5	Simple Asphyxiant, H380 Flammable Gas 1, H220
Ethyl Mercaptan	75-08-1	0 - 50 ppm	Flammable Gas 1, H220 Acute Toxicity 4 (Oral), H302 Acute Toxicity 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

WARNING: The intensity of the chemical odorant (e.g., ethyl mercaptan) may "fade" or diminish due to chemical oxidation, adsorption or absorption. Individuals with nasal perception problems may not be able to smell the odorant. Leaking propane from underground gas lines may lose its odor as it passes through certain soils. No odorant is effective 100% of the time. Therefore, circumstances can exist when individuals are in the presence of leaking propane and not be alerted by the smell. Contact JS West Propane for more information about odor, propane gas and other safety considerations associated with the handling, storage and use of propane.

Section 4 - FIRST AID MEASURES

INHALATION: Call 911 or emergency medical service. If not breathing, give artificial respiration. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not use mouth-to-mouth if victim ingested or inhaled the substance; give artificial respiration with the aid of a pock mask equipped with a one-way valve or other proper respiratory medical device.

Symptoms: May cause cough, shortness of breath. Vapors may cause dizziness or suffocation. Some may be irritating if inhaled at high concentrations

EYE CONTACT: Seek medical attention immediately. Contact with liquid may cause frostbite and serious damage to eyes. Irrigate copiously with clean, fresh water for at least 15 minutes, hold the eyelids apart.

Symptoms: May cause frostbite.

SKIN CONTACT: Remove saturated clothes, shoes and jewelry. Immerse affected area in lukewarm water not exceeding 105° F. Keep immersed. Obtain immediate medical assistance. Symptoms: May cause frostbite.

INGESTION: Rinse mouth. Do NOT induce vomiting. Vomiting: prevent asphyxia/aspiration pneumonia. Obtain emergency medical attention. Symptoms: This product is a compressed gas; hence oral exposure and resulting toxicity are unlikely.

Chronic Symptoms: Inhalation may produce mild intoxication, drowsiness, or loss of coordination. High concentration produce intoxication followed by loss of consciousness, asphyxiation, and death. Caution is recommended for personnel with pre-existing central nervous system disorders. Personnel with pre-existing chronic respiratory diseases should refrain from breathing this material.

Section 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156°F (-104°C) **AUTOIGNITION:** 842°F (432°C)

IGNITION TEMPERATURE IN AIR: 920°F to 1120°F (493°C to 549°C)

FLAMMABLE LIMITS IN AIR (% by volume): Lower: 2.15% Upper: 9.6%

EXTINGUISHING MEDIA: Dry chemical, CO₂, water spray or fog for surrounding area. Do not attempt to extinguish fire until propane source is isolated.

SPECIAL FIRE-FIGHTING INSTRUCTIONS: Evacuate all unnecessary personnel from the area. Allow only properly trained and protected emergency response personnel in area. A NIOSH approved self-contained breathing apparatus may be required. If gas flow cannot be shut off, do not attempt to extinguish fire. Allow fire to burn itself out. Use high volume water to cool exposed pressure containers and nearby equipment. Approach a flame-enveloped container from the sides, never from the ends. Use extreme caution when applying water to a container that has been exposed to heat or flame for more than a short time. For uncontrollable fires and/or when flame is impinging on container, withdraw all personnel and evacuate vicinity immediately.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Propane is heavier than air and can collect in low areas. Flash back along a vapor trail is possible. Pressure in a container can build up due to heat; and container may rupture suddenly and violently without warning if pressure relief device fail to function properly. If flames are against the container, withdraw immediately on hearing a rising sound, if venting increases in volume or intensity or if there is discoloration of the container due to fire. Propane released from a properly functioning relief valve on an overheated container can also be ignited.

HAZARDOUS COMBUSTION PRODUCTS: None

Section 6 - ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: Evacuate the immediate area. Eliminate any possible sources of ignition (no smoking, flares, sparks or flames in immediate area) and provide maximum ventilation. All equipment used in when handling the product must be grounded. Stop leak or shut off source of propane, if you can do it without risk. Do not walk through spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry to sewers and public water. Notify authorities if liquid enters sewers or public waters. If leaking from container or valve, contact your supplier or JS West Propane immediately.

Section 7 - HANDLING AND STORAGE

HANDLING PRECAUTIONS: Propane vapor is heavier than air and can collect in low areas that are without sufficient ventilation. Conduction system checks for leaks with a leak detector or solution, never with flame. Make certain the container service valve is shut off prior to connecting or disconnecting. If container valve does not operate properly, discontinue use and contact JS West Propane. Never insert an object (e.g., 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 Section 16, "OTHER INFORMATION", for additional precautions.

STORAGE PRECAUTIONS: Store in a safe, authorized location (outside, detached storage is preferred) with adequate ventilation. Specific requirements are listed in NFPA 58, LP-GAS CODE. Isolate from heat and ignition sources. Containers should never be allowed to reach temperatures 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 oxidizers by a minimum distance of 20 feet, or by a barrier or 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. Keep cylinders in an upright position at all times so that each pressure relief valve communicates with the vapor space. 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.

Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS

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

RESPIRATORY PROTECTION

General Use: None

Emergency Use: If concentrations are high enough to warrant supplied-air or NIOSH self-contained breathing apparatus, then the atmosphere may be flammable (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 that are impervious to the product for the duration of the anticipated exposure.

EYE PROTECTION: Safety glasses, goggles or face shields are recommended when handling cylinders.

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

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: @ 14.7 psia = -44°F (@1.00 atm.pressure = -42°C)

SPECIFIC GRAVITY OF VAPOR (Air = 1) at 60°F (15.56°C): 1.50

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

VAPOR PRESSURE: @70°F (20°C) = 127 psig; @105°F (45°C) = 210 psig; @130°F (55°C) = 287 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) is added to provide a strong unpleasant odor. Should a propane-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. 75-08-1. Odorant has a foul smell. The ability of people to detect odors varies widely. Also, the odor level can be reduced by certain chemical reactions with material in the propane system or when fugitive propane gas from underground leaks passes through certain soils. No odorant will be 100% effective in all circumstances. If the presence of the odorant is not obvious, notify JS West Propane or your propane vendor immediately.

Section 10 - STABILITY AND REACTIVITY

STABILITY: Stable.

Conditions to Avoid: Keep away from high heat, strong oxidizing agents and sources or ignition.

REACTIVITY: Not reactive under normal use and conditions

Hazardous Decomposition Products: Under fire conditions, fumes, smoke, carbon monoxide, aldehydes and other decomposition products. In most applications where there is inadequate venting to the outside air, incomplete combustion will produce carbon monoxide (a toxic gas) and potentially develop concentrations that can create a serious health hazard.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS INFORMATION

ROUTES OF EXPOSURE:

Inhalation: Asphyxiation. Before suffocation could occur, the lower flammability limit of propane in air would be exceeded, possibly causing both

an oxygen-deficient and explosive atmosphere. Exposure to concentrations >10% may cause dizziness. Exposure to atmospheres containing 19% or less oxygen will bring about unconsciousness without warning. Lack of sufficient oxygen may cause serious injury or death.
Eye Contact: Contact with liquid can cause freezing of tissue.
Skin Contact: Contact with liquid can cause frostbite.
Skin Absorption: None
Ingestion: Ingestion is not expected to occur in normal use. However, liquid can cause freeze burn similar to frostbite.

CHRONIC EFFECTS: None

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

ADDITIONAL TOXICOLOGY INFORMATION

Propane is non-toxic and is a simple asphyxiant. It has slight anesthetic properties. Higher concentrations may cause dizziness.

IRRITANCY OF MATERIAL: None

SENSITIZATION TO MATERIAL: None

REPRODUCTIVE EFFECTS: None

MUTAGENICITY: None

TERATOGENICITY: None

SYNERGISTIC MATERIALS: None

Section 12 - 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). Propane is not listed as a marine pollutant by DOT (49 CFR Part 171)

Section 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not attempt to dispose of residual or unused product in the container; return it to your supplier or contact JS West Propane for safe disposal. Residual product within a process system may be burned at a controlled rate if a suitable burning unit is available on site, and is done in accordance with federal, state and local regulations.

Section 14 - TRANSPORT INFORMATION

DOT SHIPPING NAME: Liquefied Petroleum Gas

HAZARD CLASS: 2.1 (Flammable Gas)

IDENTIFICATION NUMBER: UN 1075

PRODUCT RQ: None

PROPER SHIPPING NAME (DOT): Liquefied Petroleum Gas, or Propane

SHIPPING LABELS(S): Flammable Gas

PLACARD (WHEN REQUIRED): Flammable Gas

SPECIAL SHIPPING INFORMATION: Container must be transported in a well-ventilated vehicle, secured, and in a position such that the pressure relief device is in communication with the vapor space

Section 15 - REGULATORY INFORMATION

The following information concerns U.S. Federal 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 local level.

U.S. FEDERAL REGULATIONS

Environmental Protection Agency (EPA)

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA)

Reportable Quantity (RQ): None

Superfund Amendment and Reauthorization Act (SARA)

● Sections 302/304: Relates to emergency planning on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substance:

Extremely Hazardous Substances: None

Threshold Planning Quantity (TPQ): None

● Sections 311/312: Relates to submission of safety data sheets (SDSs) and chemical inventory reporting with identification of EPA-defined hazard classes (40 CFR Part 370). The hazard classes for this product are:

IMMEDIATE: No **PRESSURE:** Yes **DELAYED:** No **REACTIVITY:** No **FLAMMABLE:** Yes

● Section 313: Relates to submission of annual reports of toxic chemicals that appear in 40 CFR Part 372. Propane does not require reporting under Section 313.

Toxic Substance Control Act (TSCA)

Propane is listed on the TSCA inventory.

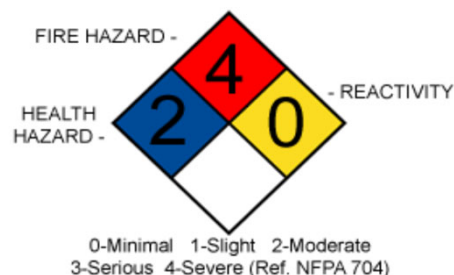
Food and Drug Administration (FDA)

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

Section 16 - OTHER INFORMATION

SPECIAL PRECAUTIONS: Use piping and equipment adequately designed to withstand pressure to be encountered. NFPA 58, LP-GAS CODE and OSHA 29 CFR 1910.10 require that all persons employed in handling LP-gases be trained in proper handling and operating procedures, which the employer shall document. Contact your propane supplier or JS West Propane to arrange for the required training. Allow only trained and qualified persons to install and service propane containers and systems.

NFPA health hazard	: 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury
NFPA fire hazard	: 4 Will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily.
NFPA Reactivity	Normal stable, even under fire exposure condition, and is not reactive with water.



This safety data sheet and the information it contains is offered to you in good faith as accurate. This Supplier does not manufacture this product, but is a supplier of the product that is independently produced 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 safety precautions in this data sheet may 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 regulation and to assume the risk involved in the use of this product.

NO WARRANTY OR MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, 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.