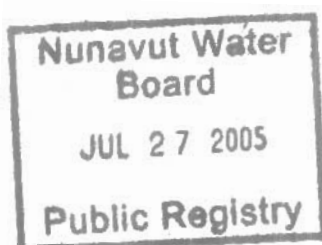


Material Safety Data Sheet

Propane



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Material Safety Data Sheet

MSDS ID NO.: 0133SPE012
Revision date: 01/30/2004

Product name: SSA Propane
Synonyms: Liquefied Petroleum Gas, SSA; LPG, SSA; Propane, SSA; SSA Liquefied Petroleum Gas
Chemical Family: Aliphatic Hydrocarbon
Formula: CH₃CH₂CH₃

Supplier:
Speedway/SuperAmerica LLC
P O BOX 1500
ENON OH 45501

Other information: 419-421-3070
Emergency telephone number: 877-627-5463

Propane is an aliphatic petroleum hydrocarbon. Ethyl mercaptan (15-25 ppm) is added as an odorant. The odor threshold of the mercaptan is 1 ppb.

Product information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
SSA Propane	74-98-6	100	≈ 2500 ppm TWA	≈ 1000 ppm TWA ≈ 1800 mg/m ³ TWA	

Component information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Propane	74-98-6	90-100	≈ 2500 ppm TWA	≈ 1000 ppm TWA ≈ 1800 mg/m ³ TWA	
Propylene	115-07-1	1-5			ACGIH Simple asphyxiant
Ethane	74-84-0	000.5000 - 003.0000			ACGIH Simple asphyxiant
Bulane & Heavier	Mixture	0-2.5			
Sulfur	7704-34-9	< 000.0100			

Notes: The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

EMERGENCY OVERVIEW

PROPANE IS A COLORLESS GAS OR LIQUID STENCHED WITH A FOUL SULFUR SMELLING ODORANT. IT IS SHIPPED OR TRANSPORTED AS A LIQUIFIED GAS UNDER PRESSURE. THIS PRODUCT IS EXTREMELY FLAMMABLE AND EXPLOSIVE. AT HIGH CONCENTRATIONS THIS PRODUCT IS A SIMPLE ASPHYXIANT, WHICH DISPLACES OXYGEN FROM THE BREATHING ATMOSPHERE. MAY CAUSE SKIN AND EYE BURNS UPON LIQUID CONTACT. LARGE RELEASES CAN CREATE A FLAMMABLE VAPOR CLOUD.

OSHA WARNING LABEL:

DANGER!
EXTREMELY FLAMMABLE.
LIQUID AND GAS UNDER PRESSURE.
LIQUID CAN CAUSE FROST BURNS.

CONSUMER WARNING LABEL:

A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation: Product is an anesthetic at high concentrations, producing dizziness, headache, incoordination and narcosis; extremely high concentrations can cause asphyxiation and death by displacement of oxygen from the breathing atmosphere.

Ingestion: Ingestion not likely

Skin contact: Vapor is generally non-irritating to skin. Direct contact with liquified product can cause "cold burn" or frostbite.

Eye contact: Vapor is generally non-irritating to eyes. Direct contact with liquified product can cause "cold burn" or frostbite.

Carcinogenic Evaluation:**Product information**

Name	IARC:	NTP:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
SSA Propane 74-98-6	NE			

Notes: The International Agency for Research on Cancer (IARC) has not evaluated this product.

Component Information

Name	IARC:	NTP:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Propylene 115-07-1			A4 - Not Classifiable as a Human Carcinogen	

Notes: The International Agency for Research on Cancer (IARC) has concluded that propylene is not classifiable as to its carcinogenicity to humans (Group 3).

Inhalation: If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician.

Skin contact: If liquified product has caused a "frost burn", remove contaminated clothing. Thaw frostbitten areas slowly with lukewarm water or by wrapping affected areas with blankets. Do not rub affected areas. Let circulation reestablish itself naturally, exercising area if possible. Call a physician.

Ingestion: Ingestion not likely. If swallowed, immediately call a physician.

Eye contact: Liquid: Flush with large amounts of tepid water for at least 15 minutes. Immediately call a physician.
Gas: Call a physician if symptoms or irritation occur.

Medical conditions aggravated by exposure: Inhalation of high vapor concentrations of components of this product in animals has produced cardiac sensitization. Such sensitization may cause changes in heart rhythms. This latter effect was shown to be enhanced by oxygen deficiency or the injection of adrenalin-like agents.

Suitable extinguishing media: For small fires, Class B fire extinguishing media such as CO₂, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Specific hazards: This product has been determined to be a flammable gas/liquid per the OSHA Hazard Communication Standard, and should be handled accordingly. For additional fire related information see NFPA 30 or North American Emergency Response Guide 115.

Special protective equipment for firefighters: BLEVE's (boiling liquid expanding vapor explosions) can occur when a liquid in a pressurized container in close proximity to a fire reaches a temperature well above its boiling point. Its effect could lead to a catastrophic failure of the vessel resulting in flying equipment fragments, a shock wave and a fireball causing serious damage and death. Isolate hazard area. If safe to do so, stop the flow of gas and allow fire to burn out. Extinguishing the flame before shutting off the supply can cause the formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use extreme caution when fighting liquefied petroleum gas fires. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Avoid use of solid water streams. Contact with water and liquefied product can cause increased vaporization.

Flash point: -158 F

Autoignition temperature: 871 F

Flammable limits in air - lower (%): 2.1

Flammable limits in air - upper (%): 9.5

NEPA rating:

Health: 1
Flammability: 4
Reactivity: 0
Other: -

HMS classification:

Health: 1
Flammability: 4
Reactivity: 0
Special: *See Section 8 for guidance in selection of personal protective equipment.

Personal precautions:

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Leaking containers should be moved outdoors or to well-ventilated area and contents transferred to a suitable container. Product vapor is heavier than air and can collect in low areas that are without sufficient ventilation. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer.

Handling:

Product is stored as a liquid but used in the gaseous state. Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Avoid overpressurizing or overfilling cylinders. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures:	Local or general exhaust required in an enclosed area or with inadequate ventilation.
Respiratory protection:	Use atmosphere supplying respirators in the event of oxygen deficiency, when material produces vapors that exceed permissible limits or when excessive vapors are generated. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Wear insulated gloves to prevent skin contact and frostbite.
Eye protection:	Use goggles or face-shield if there is a potential for splashing.
Hygiene measures:	Use mechanical ventilation equipment that is explosion-proof.

Appearance:	Colorless Liquified Gas
Physical state (Solid/Liquid/Gas):	Liquid
Substance type (Pure/Mixture):	Pure
Color:	Colorless
Odor:	Rotten-egg.
Molecular weight:	Not determined.
pH:	No data available.
Boiling point/range:	-43.7 F
Melting point/range:	-305.8 F
Decomposition temperature:	Not applicable.
Specific gravity:	.51 Liquid
Density:	4.4 lbs/gal @ 32 F
Bulk density:	No data available.
Vapor density:	1.56
Vapor pressure:	7600 mm Hg @ 80 F 147 PSI @ 80 F
Evaporation rate:	No data available.
Solubility:	Moderate 6.5%
Solubility in other solvents:	No data available.
Partition coefficient (n-octanol/water):	No data available.
VOC content(%):	No data available.
Viscosity:	No data available.

Stability:

The material is stable at 70 F, 760 mm pressure.

Polymerization: Will not occur.

Hazardous decomposition products: Combustion produces carbon monoxide.

Materials to avoid: Strong oxidizers such as nitrates, perchlorates, chlorine, fluorine.

Conditions to avoid: Sources of heat or ignition.

Acute toxicity:**Product Information**

Name	CAS Number	Inhalation:	Dermal:	Oral:
SSA Propane	74-98-6	>4000,000 ppm for 6 hr [Rel]	n/a	n/a

Some of the major components of this product are considered to be simple asphyxiant gases without significant potential for systemic toxicity. At high concentrations these gases act as asphyxiants by diluting and displacing oxygen. Symptoms of persons exposed to oxygen deficient atmospheres include headache, dizziness, incoordination, cyanosis and narcosis. Extremely high concentrations can produce unconsciousness followed by death.

At extremely high concentrations and excessive exposure conditions components of this product may produce cardiac sensitization

Ecotoxicity effects: Liquid product is not toxic to aquatic life or waterfowl. The aquatic 96 hour TLM for propane is >100 ppm.

Cleanup Considerations:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 261). However, when discarded or disposed of, it may meet the criteria of an "Ignitable" hazardous waste (D001). This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Bleeding off small amounts of this product into the atmosphere or controlled incineration of large amounts are potential disposal methods provided all regulatory requirements are met.

49 CFR 172.101:

DOT:

Transport Information: This material when transported via US commerce would be regulated by DOT Regulations.

Proper shipping name:
UN/Identification No:
Hazard Class:

Propane
UN 1978
2.1

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Product name: SSA Propane

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Packing group:
DOT reportable quantity (lbs):

Not applicable.
Not applicable.

TDG (Canada):

Proper shipping name:
UN/identification No:
Hazard Class:
Packing group:
Regulated substances:

Propane
UN 1978
2.1
Not applicable.
Not applicable.

Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Propane	NA
Propylene	NA
Ethane	NA
Butane & Heavier	NA
Sulfur	NA

SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Propane	NA
Propylene	NA
Ethane	NA
Butane & Heavier	NA
Sulfur	NA

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard.
Fire Hazard.
Sudden Release Of Pressure.

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Propane	None
Propylene	≥ 1.0 percent de minimis concentration
Ethane	None
Butane & Heavier	None
Sulfur	None

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

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Product name: SSA Propane

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Propane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	sn 1594
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic, Flammable
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 1594
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Propylene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	sn 1609
Pennsylvania Right-To-Know:	environmental hazard
Massachusetts Right-To Know:	Present
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic, Flammable
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 1609
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Ethane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	sn 0834
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	flammable - fourth degree

New Jersey - Environmental Hazardous Substances List: SN 0834; NJ uses UN1035 for reporting purposes

Illinois - Toxic Air Contaminants Not Listed

New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

Butane & Heavier

Louisiana Right-To-Know: Not Listed

California Proposition 65: Not Listed

New Jersey Right-To-Know: Not Listed

Pennsylvania Right-To-Know: Not Listed

Massachusetts Right-To-Know: Not Listed

Florida substance List: Not Listed

Rhode Island Right-To-Know: Not Listed

Michigan critical materials register list: Not Listed

Massachusetts Extraordinarily Hazardous Substances: Not Listed

California - Regulated Carcinogens: Not Listed

Pennsylvania RTK - Special Hazardous Substances: Not Listed

New Jersey - Special Hazardous Substances: Not Listed

New Jersey - Environmental Hazardous Substances List: Not Listed

Illinois - Toxic Air Contaminants Not Listed

New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

Sulfur

Louisiana Right-To-Know: Not Listed

California Proposition 65: Not Listed

New Jersey Right-To-Know: sn 1757

Pennsylvania Right-To-Know: [present]

Massachusetts Right-To-Know: Present

Florida substance List: Not Listed

Rhode Island Right-To-Know: Flammable

Michigan critical materials register list: Not Listed

Massachusetts Extraordinarily Hazardous Substances: Not Listed

California - Regulated Carcinogens: Not Listed

Pennsylvania RTK - Special Hazardous Substances: Not Listed

New Jersey - Special Hazardous Substances: Not Listed

New Jersey - Environmental Hazardous Substances List: Not Listed

Illinois - Toxic Air Contaminants Not Listed

New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

Canadian Regulatory Information:

Canada DSUNDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or the Non Domestic Substance List (NDSL).

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Propane	A; B1	
Propylene	A; B1	
Ethane	A; B1	
Sulfur	B1	

Additional Information: No data available.

Prepared by: Craig M. Parker Manager, Toxicology and Product Safety

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End of Safety Data Sheet