

**Propane Import**

Version 1.1

Revision Date 2015-11-23

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product information**

Product Name : Propane Import

Use : Solvent, Odorant, Fuel

Company : Saudi Chevron Phillips Company  
10001 Six Pines Drive  
The Woodlands, TX 77380**Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

CHEMTREC 1.800.424.9300 (within USA and Canada) or 703.527.3887 (outside USA and Canada)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com

Website : www.CPChem.com

**SECTION 2: Hazards identification****Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

**Emergency Overview****Danger****Form:** Compressed gas **Physical state:** Gaseous **Color:** Colorless **Odor:** odorless  
(Repulsive if odorant has been added)


OSHA Hazards : Flammable Gas, Compressed Gas

**Classification**: Flammable gases , Category 1  
Gases under pressure , Compressed gas**Labeling**

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Symbol(s) : 

Signal Word : Danger

Hazard Statements : H220: Extremely flammable gas.  
H280: Contains gas under pressure; may explode if heated.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
**Response:**  
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 Eliminate all ignition sources if safe to do so.  
**Storage:**  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**SECTION 3: Composition/information on ingredients**

Synonyms : Propane

Molecular formula : C3H8

Component	CAS-No.	Weight %
Propane	74-98-6	90
Propylene	115-07-1	10

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while

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If swallowed : rinsing. If eye irritation persists, consult a specialist.  
 : Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**SECTION 5: Firefighting measures**

Flash point : -104 °C (-155 °F)  
 estimated

Autoignition temperature : 468 °C (874 °F)

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

Unsuitable extinguishing media : High volume water jet.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : Carbon oxides.

**SECTION 6: Accidental release measures**

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 7: Handling and storage****Handling**

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood.

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Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Requirements for storage areas and containers : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8: Exposure controls/personal protection****Ingredients with workplace control parameters****US**

Ingredients	Basis	Value	Control parameters	Note
Propane	OSHA Z-1	TWA	1,000 ppm, 1,800 mg/m3	(b),
	OSHA Z-1-A	TWA	1,000 ppm, 1,800 mg/m3	
Propylene	ACGIH	TWA	500 ppm,	A4,

(b) The value in mg/m3 is approximate.

A4 Not classifiable as a human carcinogen

**Immediately Dangerous to Life or Health Concentrations (IDLH)**

Substance name	CAS-No.	Control parameters	Update
Propane	74-98-6	Immediately Dangerous to Life or Health Concentration Value 2100 ppm	1995-03-01

**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Eye protection : Eye wash bottle with pure water. Safety glasses.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
- Hygiene measures : Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

- Form : Compressed gas
- Physical state : Gaseous
- Color : Colorless
- Odor : odorless (Repulsive if odorant has been added)
- Odor Threshold : No data available

**Safety data**

- Flash point : -104 °C (-155 °F)  
estimated
- Lower explosion limit : 2.1 %(V)
- Upper explosion limit : 9.5 %(V)
- Oxidizing properties : No
- Autoignition temperature : 468 °C (874 °F)
- Thermal decomposition : No data available
- Molecular formula : C<sub>3</sub>H<sub>8</sub>
- Molecular weight : 44.11 g/mol
- pH : Not applicable
- Pour point : No data available
- Boiling point/boiling range : -42 °C (-44 °F)
- Vapor pressure : 123.00 PSI

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	at 21 °C (70 °F)
Relative density	: 0.51 at 16 °C (61 °F)
Water solubility	: Negligible
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, kinematic	: No data available
Relative vapor density	: 1.5 (Air = 1.0)
Evaporation rate	: > 1
Percent volatile	: > 99 %

**SECTION 10: Stability and reactivity**

Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
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**Possibility of hazardous reactions**

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon oxides
Other data	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Propane Import</b> <b>Acute oral toxicity</b>	: Negligible or unlikely exposure pathways
<b>Acute inhalation toxicity</b>	
Propane	: LC50: > 800000 ppm Exposure time: 15 min Species: Rat Test atmosphere: gas
Propylene	: LC50: > 86 mg/l

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Exposure time: 4 h  
 Species: Rat  
 Test atmosphere: gas  
 Test substance: yes

**Propane Import  
 Acute dermal toxicity** : Negligible or unlikely exposure pathways

**Propane Import  
 Skin irritation** : No skin irritation  
 Contact with liquid or refrigerated gas can cause cold burns and frostbite.

**Propane Import  
 Eye irritation** : No eye irritation  
 Contact with liquid or refrigerated gas can cause cold burns and frostbite.

**Propane Import  
 Sensitization** : No data available.

**Repeated dose toxicity**

Propane : Species: Monkey  
 Application Route: Inhalation  
 Dose: 0, 750 ppm  
 Exposure time: 90 day  
 Number of exposures: daily  
 NOEL: > 750 ppm

Propylene : Species: Rat, Male and female  
 Sex: Male and female  
 Application Route: Inhalation  
 Dose: 625,1250,2500,5000, 10000 ppm  
 Exposure time: 14 wk  
 Number of exposures: 6 Hr/d, 5 d/wk  
 NOEL: 10000 ppm  
 No adverse effect has been observed in chronic toxicity tests.

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Species: Mouse, Male and female  
 Sex: Male and female  
 Application Route: Inhalation  
 Dose: 625,1250,2500,5000, 10000 ppm  
 Exposure time: 14 wk  
 Number of exposures: 6 Hr/d, 5 d/wk  
 NOEL: 10000 ppm  
 No adverse effect has been observed in chronic toxicity tests.

Species: Rat, Male and female  
 Sex: Male and female  
 Application Route: Inhalation  
 Dose: 0, 5000, 10000 ppm  
 Exposure time: 103 wk  
 Number of exposures: 6 Hr/d, 5 d/wk  
 Lowest observable effect level: 5000 ppm

Species: Mouse, Male and female  
 Sex: Male and female  
 Application Route: Inhalation  
 Dose: 0, 5000, 10000 ppm  
 Exposure time: 103 wk  
 Number of exposures: 6 Hr/d, 5 d/wk  
 Lowest observable effect level: 5000 ppm

**Carcinogenicity**

Propylene

: Species: Rat  
 Dose: 0, 5000, 10000 ppm  
 Exposure time: 103 wks  
 Number of exposures: 6 h/d, 5 d/wk  
 Remarks: No evidence of carcinogenicity

Species: Mouse  
 Dose: 0, 5000, 10000 ppm  
 Exposure time: 103 wks  
 Number of exposures: 6 h/d, 5 d/wk  
 Remarks: No evidence of carcinogenicity

**Reproductive toxicity**

Propane

: Species: Rat  
 Sex: male and female  
 Application Route: Inhalation  
 Dose: 0, 1200, 4000, 12000 ppm  
 Exposure time: 6 weeks  
 Number of exposures: 6 hours/day, 7 days/week  
 Test period: 6 weeks  
 Test substance: yes  
 Method: OECD Guideline 422  
 NOAEL Parent: 12000 ppm  
 NOAEL F1: 12000 ppm

Propylene

Species: Rat  
 Sex: male and female  
 Application Route: Inhalation  
 Dose: 0, 5000, 10000 ppm  
 Number of exposures: 6 hrs/d, 5 d/wk  
 Test period: 103 wks



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NOAEL Parent: 10000 ppm

Species: Mouse  
 Sex: male and female  
 Application Route: Inhalation  
 Dose: 0, 5000, 10000 ppm  
 Number of exposures: 6 hrs/d, 5 d/wk  
 Test period: 103 wks  
 NOAEL Parent: 10000 ppm

**Developmental Toxicity**

Propylene : Species: Rat  
 Application Route: Inhalation  
 Dose: 0, 200, 1000, 10000 ppm  
 Number of exposures: 6 hrs/d  
 Test period: 14 d  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity: 10000 ppm  
 NOAEL Maternal: 10000 pmm

**Propane Import  
 Aspiration toxicity** : No aspiration toxicity classification.

**CMR effects**

Propylene : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Teratogenicity: Animal testing did not show any effects on fetal development.  
 Reproductive toxicity: Animal testing did not show any effects on fertility.

**Propane Import  
 Further information** : No data available.

**SECTION 12: Ecological information**

Elimination information (persistence and degradability)

Bioaccumulation

Propane : This material is not expected to bioaccumulate.  
 This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
 This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Biodegradability : Not applicable

**Ecotoxicology Assessment**

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## Results of PBT assessment

Propane : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

## Additional ecological information

: No data available

**SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN1978, PROPANE, 2.1

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN1978, PROPANE, 2.1, (-104 °C)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN1978, PROPANE, 2.1

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN1978, PROPANE, 2.1, (B/D)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN1978, PROPANE, 2.1 ((13))

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**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**  
UN1978, PROPANE, 2.1

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**SECTION 15: Regulatory information****National legislation**

**SARA 311/312 Hazards** : Fire Hazard  
Sudden Release of Pressure Hazard

**CERCLA Reportable Quantity** : This material does not contain any components with a CERCLA RQ.

**SARA 302 Reportable Quantity** : This material does not contain any components with a SARA 302 RQ.

**SARA 302 Threshold Planning Quantity** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 304 Reportable Quantity** : This material does not contain any components with a section 304 EHS RQ.

**SARA 313 Ingredients** : The following components are subject to reporting levels established by SARA Title III, Section 313:

: Propylene - 115-07-1

**Clean Air Act**

**Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

: Propane - 74-98-6  
 Propylene - 115-07-1

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

: Propylene - 115-07-1

**US State Regulations**

Pennsylvania Right To Know

: Propane - 74-98-6  
 Propylene - 115-07-1

New Jersey Right To Know

: Propane - 74-98-6  
 Propylene - 115-07-1

California Prop. 65  
 Ingredients

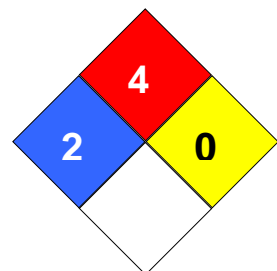
: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**Notification status**

Europe REACH : Not in compliance with the inventory  
 United States of America TSCA : On TSCA Inventory  
 Canada DSL : All components of this product are on the Canadian DSL  
 Australia AICS : On the inventory, or in compliance with the inventory  
 New Zealand NZIoC : On the inventory, or in compliance with the inventory  
 Japan ENCS : On the inventory, or in compliance with the inventory  
 Korea KECI : On the inventory, or in compliance with the inventory  
 Philippines PICCS : On the inventory, or in compliance with the inventory  
 China IECSC : On the inventory, or in compliance with the inventory

**SECTION 16: Other information****NFPA Classification**

: Health Hazard: 2  
 Fire Hazard: 4  
 Reactivity Hazard: 0



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**Further information**

Legacy SDS Number : CPC00530

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		