

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Propane**
 SDS Manufacturer Number: 169570

Other means of identification:

Synonyms: Commercial Propane; C3 (All); HD5 Propane; LP-Gas; Liquefied Petroleum Gas; Odorized Propane; Propane (Unstened); Propane Commercial; Propane Motor Fuel; Propane for Process; Stened Propane; Unodorized Propane

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Fuel

Chemical manufacturer address and telephone number:

Manufacturer Name: Conoco Phillips
 Address: 600 N. Dairy Ashford
 Houston, TX 77079-1175
 Website: www.conocophillips.com
 General Phone Number: 855-244-0762.....E-mail: SDS@conocophillips.com

Emergency phone number:

Emergency Phone Number: Chemtrec: 800-424-9300 (24 Hours)

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: DANGER.

GHS Class: Flammable gases, Category 1.
 Compressed gases under pressure. .
 Simple Asphyxiant.

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

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

Hazards not otherwise classified that have been identified during the classification process:

Information related to Product Mixture

Carcinogenicity: Not expected to cause cancer. This substance is not listed as a carcinogen by IARC, NTP or OSHA.

Signs/Symptoms: Light hydrocarbon gases are simple asphyxiants and can cause anesthetic effects at high concentrations. Symptoms of overexposure, which are reversible if exposure is stopped, can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting. Continued exposure can lead to hypoxia (inadequate oxygen), rapid breathing, cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
n-Butane	106-97-8	< 5 %	
Propane	74-98-6	80-100 %	

Isobutane	75-28-5	< 2.5 %
Propylene	115-07-1	<20 %
Ethane	74-84-0	<6 %

Notes : ¹ All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Odorized products contain small quantities (<0.1%) ethyl mercaptan as an olfactory indicator.

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	For contact with the liquefied gas, remove contact lenses if present and easy to do, hold eyelids apart and gently flush the affected eye(s) with lukewarm water. Seek immediate medical attention.
Skin Contact:	Liquefied gases may cause cryogenic burns or injury. Treat burned or frostbitten skin by flushing or immersing the affected area(s) in lukewarm water. Do not rub affected area. Do not remove clothing that adheres due to freezing. After sensation has returned to the frostbitten skin, keep skin warm, dry, and clean. If blistering occurs, apply a sterile dressing. Seek immediate medical attention.
Inhalation:	(Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel. If symptoms persist, seek medical attention.
Ingestion:	(Swallowing): This material is a gas under normal atmospheric conditions and ingestion is unlikely.

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.
Notes :	Most important symptoms and effects: Acute: Anesthetic effects at high concentrations. Delayed: None known or anticipated. See Section 11 for information on effects from chronic exposure, if any.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Dry chemical or carbon dioxide is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
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Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.
Unusual Fire Hazards:	Extremely flammable. Contents under pressure. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Drains can be plugged and valves made inoperable by the formation of ice if rapid evaporation of large quantities of the liquefied gas occurs. Do not allow run-off from fire fighting to enter drains or water courses - may cause explosion hazard in drains and may reignite.
Fire Fighting Instructions:	For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. If this cannot be done, allow fire to burn. Move undamaged containers from immediate hazard area if it can be done safely. Stay away from ends of container. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely.

NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	4
NFPA Reactivity:	0



Notes : NFPA 704 Hazard Class:
(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Extremely flammable. Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof electrical equipment is recommended. Beware of accumulation of gas in low areas or contained areas, where explosive concentrations may occur. Prevent from entering drains or any place where accumulation may occur. Ventilate area and allow to evaporate. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental precautions:

Environmental Precautions: Stop spill/release if it can be done safely. Water spray may be useful in minimizing or dispersing vapors. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Notify relevant authorities in accordance with all applicable regulations.
Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Precautions for safe handling: Keep away from ignition sources such as heat/sparks/open flame - No smoking. Take precautionary measures against static discharge. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Contents under pressure. Gas can accumulate in confined spaces and limit oxygen available for breathing. Use only with adequate ventilation. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-70 and/or API RP 2003 for specific bonding/grounding requirements. Electrostatic charge may accumulate and create a hazardous condition when handling or processing this material. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Cold burns may occur during filling operations. Containers and delivery lines may become cold enough to present cold burn hazard.

Propane and odorant are heavier than air and will collect and pool along the ground or floor. Odorant, therefore, may not be detectable above the location of propane storage or service (for example, odorant in propane released or leaked into the basement of a dwelling may not be detected above the basement).

WARNING - The intensity of the odorant may fade over prolonged storage or in the presence of rust, when placed initially in new or freshly-cleaned storage vessels, or when exposed to masonry.

Conditions for safe storage, including any incompatibilities:

Storage: Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Store only in approved containers. Post area "No Smoking or Open Flame." Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Avoid exposing any part of a compressed-gas cylinder to temperatures above 125 deg F (51.6 deg C). Gas cylinders should be stored outdoors or in well ventilated storerooms at no lower than ground level and should be quickly removable in an emergency.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Information related to Product Mixture :

Guideline Info: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

n-Butane :

Guideline ACGIH: TWA: 1000 ppm as Aliphatic Hydrocarbon Gases: Alkane (C1-C4)

Propane :

Guideline ACGIH: TWA: 1000 ppm as Aliphatic Hydrocarbon Gases: Alkane (C1-C4)

Guideline OSHA: TWA: 1000 ppm TWA: 1800 mg/m³

Isobutane :

Guideline ACGIH: TWA: 1000 ppm as Aliphatic Hydrocarbon Gases: Alkane (C1-C4)

Propylene :

Guideline ACGIH: TWA: 500 ppm

Ethane :

Guideline ACGIH: TWA: 1000 ppm as Aliphatic Hydrocarbon Gases: Alkane (C1-C4)

Appropriate engineering controls:

Engineering Controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Individual protection measures:

Eye/Face Protection: The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

Skin Protection Description: Wear thermal insulating gloves and face shield or eye protection when working with materials that present thermal hazards (hot or cold).

Respiratory Protection: A NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used in situations of oxygen deficiency (oxygen content less than 19.5 percent), unknown exposure concentrations, or situations that are immediately dangerous to life or health (IDLH).

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Notes : Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Form: Liquefied Gas
Color:	Colorless
Odor:	No distinct odor (or skunk, rotten egg or garlic if odorant added)
Odor Threshold:	No Data
Boiling Point:	-44 deg F/-42 deg C
Melting Point:	-309 deg F/-189 deg C
Specific Gravity:	(water=1): 0.50-0.51 @ 60 deg F (15.6 deg C)
Solubility:	negligible
Vapor Density:	(AIR=1): > 1
Vapor Pressure:	208 psia (Reid VP) @ 100 deg F/37.8 deg C
Percent Volatile:	100%
Evaporation Rate:	(nBuAc=1): > 1
pH:	Not Applicable
Coefficient of Water/Oil Distribution:	Partition Coefficient (n-octanol/water) (Kow): No data
Flash Point:	-156 deg F/-104 deg C
Flash Point Method:	Tag Closed Cup (TCC), ASTM D56
Lower Flammable/Explosive Limit:	(vol % in air): 2.1
Upper Flammable/Explosive Limit:	(vol % in air): 9.5
Auto Ignition Temperature:	842 deg F/450 deg C

9.2. Other information:

Notes : Note: Unless otherwise stated, values are determined at 20 deg C (68 deg F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions:

Hazardous Polymerization: Not known to occur.

Conditions To Avoid:

Conditions to Avoid: Avoid all possible sources of ignition. Heat will increase pressure in the storage tank.

Incompatible Materials:

Incompatible Materials: Materials to Avoid: Avoid contact with acids, aluminum chloride, chlorine, chlorine dioxide, halogens and oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: Not anticipated under normal conditions of use.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Information related to Product Mixture :

Eye:	Not expected to be irritating. Contact with the liquefied or pressurized gas may cause momentary freezing followed by swelling and eye damage.
Skin:	Skin Absorption: Hazard: Skin absorption is not anticipated LD50: Not Applicable Not expected to be irritating. Contact with the liquefied or pressurized gas may cause frostbite (cold burn).
Inhalation:	Hazard: Unlikely to be harmful Additional Information: Asphyxiant. High concentrations in confined spaces may limit oxygen available for breathing. See Signs and Symptoms.

	LC50: > 20,000 ppm
Ingestion:	(Swallowing): Hazard: Ingestion is not anticipated LD50: Not Applicable
Sensitization:	Skin Sensitization: Skin contact is not anticipated. Respiratory Sensitization: Not expected to be a respiratory sensitizer.
Carcinogenicity:	Not expected to cause cancer. This substance is not listed as a carcinogen by IARC, NTP or OSHA.
Mutagenicity:	Germ Cell Mutagenicity: Not expected to cause heritable genetic effects.
Reproductive Toxicity:	Not expected to cause reproductive toxicity.
Other Toxicological Information:	Signs and Symptoms: Light hydrocarbon gases are simple asphyxiants and can cause anesthetic effects at high concentrations. Symptoms of overexposure, which are reversible if exposure is stopped, can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting. Continued exposure can lead to hypoxia (inadequate oxygen), rapid breathing, cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.
Target Organ Single Exposures:	Not expected to cause organ effects from single exposure.
Target Organ Repeated Exposures:	Not expected to cause organ effects from repeated exposure.
Aspiration:	Not Applicable
<u>n-Butane :</u>	
Reproductive Toxicity:	No adverse reproductive or developmental effects were observed in rats exposed to butane; no observed adverse effect level = 12,000 ppm.
Target Organ Repeated Exposures:	No systemic or neurotoxic effects were noted in rats exposed to concentrations of butane as high as 9,000 ppm for 28 days.
<u>Propane :</u>	
Reproductive Toxicity:	No adverse reproductive or developmental effects were observed in rats exposed to propane; no observed adverse effect level = 12,000 ppm.
Target Organ Repeated Exposures:	No systemic or neurotoxic effects were noted in rats exposed to concentrations of propane as high as 12,000 ppm for 28 days.
<u>Isobutane :</u>	
Reproductive Toxicity:	No adverse reproductive or developmental effects were observed in rats exposed to butane; no observed adverse effect level = 12,000 ppm.
Target Organ Repeated Exposures:	No systemic or neurotoxic effects were noted in rats exposed to concentrations of isobutane as high as 9,000 ppm for 28 days.
Other Comments	High concentrations may reduce the amount of oxygen available for breathing, especially in confined spaces. Hypoxia (inadequate oxygen) during pregnancy may have adverse effects on the developing fetus. The odorant, ethyl mercaptan, can be irritating to the eyes, skin and respiratory tract. At high concentrations, a person can temporarily lose the ability to smell ethyl mercaptan. In addition, some individuals may have an impaired sense of smell, which inhibits the detection of the odorant.

SECTION 12 : ECOLOGICAL INFORMATION

Information related to Product Mixture :

Ecotoxicity:

Ecotoxicity: Petroleum gases will readily evaporate from the surface and would not be expected to have significant adverse effects in the aquatic environment. Classification: No classified hazards.

Persistence and degradability:

Biodegradation: Persistence and Degradability: The hydrocarbons in this material are expected to be inherently biodegradable. In practice, hydrocarbon gases are not likely to remain in solution long enough for biodegradation to be a significant loss process. Hydrogen sulfide, if present in refinery gas streams, will be rapidly oxidized in water and insoluble sulfides precipitated from water when metallic radicals are present.

Bioaccumulative potential:

Bioaccumulation: Since the log Kow values measured for refinery gas constituents are below 3, they are not regarded as having the potential to bioaccumulate.

Mobility in soil:

Mobility In Environmental Media: Mobility in Soil: Due to the extreme volatility of petroleum gases, air is the only environmental compartment in which they will be found. In air, these hydrocarbons undergo photodegradation by reaction with hydroxyl radicals with half-lives ranging from 3.2 days for n-butane to 7 days for propane.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Information related to Product Mixture :

Waste Disposal: This material is a gas and would not typically be managed as a waste.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Shipping Description: UN1978, Propane, 2.1
Non-Bulk Package Marking: Propane, UN1978
Non-Bulk Package Labeling: Flammable gas

Bulk Package/Placard Marking: Flammable gas / 1978
 Packaging - References: 49 CFR: 173.306; 173.304; 173.314 & .315 (Exceptions; Non-bulk; Bulk)
 Hazardous Substance: See Section 15 for RQ's
 Emergency Response Guide: 115
 Note: For domestic transportation only, UN1075 may be substituted for the UN number shown as long as the substitution is consistent on package markings, shipping papers, and emergency response information. See 49 CFR 172.102 Special Provision 19.
 Containers of NON-ODORIZED liquefied petroleum gas must be marked either NON-ODORIZED or NOT ODORIZED as of September 30, 2006. [49 CFR 172.301(f), 326(d), 330(c) and 338(e)] The following alternate shipping description order may be used until January 1, 2013:
 Proper Shipping name, Hazard Class or Division, (Subsidiary Hazard if any), UN or NA number, Packing Group
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable
 Other shipping description elements may be required for DOT compliance.

IATA Shipping Name: UN/ID Number: UN1978
 Proper Shipping Name: Propane
 Hazard Class/Division: 2.1
 Non-Bulk Package Marking: Propane, UN1978
 Labels: Flammable gas
 ERG Code: 10L
 Note: Special provision A1 applies to this product.
 Packaging Instruction #: LTD. QTY:Forbidden, Passenger Aircraft:Forbidden, Cargo Aircraft Only: 200
 Max. Net Qty. Per Package: LTD. QTY:Forbidden, Passenger Aircraft:Forbidden, Cargo Aircraft Only: 150 kg

IMDG Shipping Name : Shipping Description: UN1978, Propane, 2.1
 Non-Bulk Package Marking: Propane, UN1978
 Labels: Flammable gas
 Placards/Marking (Bulk): Flammable gas / 1978
 Packaging - Non-Bulk: P200
 EMS: F-D, S-U

ICAO Shipping Name: UN/ID Number: UN1978
 Proper Shipping Name: Propane
 Hazard Class/Division: 2.1
 Non-Bulk Package Marking: Propane, UN1978
 Labels: Flammable gas
 ERG Code: 10L
 Note: Special provision A1 applies to this product.
 Packaging Instruction #: LTD. QTY:Forbidden, Passenger Aircraft:Forbidden, Cargo Aircraft Only: 200
 Max. Net Qty. Per Package: LTD. QTY:Forbidden, Passenger Aircraft:Forbidden, Cargo Aircraft Only: 150 kg

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Information related to Product Mixture :

TSCA Inventory Status: All components are either listed on the US TSCA Inventory, or are not regulated under TSCA

TSCA 12(b) Export Notification: U.S. Export Control Classification Number: EAR99

CERCLA Section 302: CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds): This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

Section 311/312 Hazard Categories: CERCLA/SARA - Section 311/312 (Title III Hazard Categories)
 Acute Health: Yes
 Chronic Health: No
 Fire Hazard: Yes
 Pressure Hazard: Yes
 Reactive Hazard: No

Section 313: CERCLA/SARA - Section 313 and 40 CFR 372: This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:
 Component : Propylene, Concentration¹: <20, de minimis : 1.0%
 EPA (CERCLA) Reportable Quantity (in pounds): EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

California PROP 65: California Proposition 65: This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.
 WARNING: Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm are created by the combustion of Propane.

Canada DSL: All components are either on the DSL, or are exempt from DSL listing requirements

Canada WHMIS: WHMIS Hazard Class:
 A - Compressed Gas
 B1 - Flammable Gases

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Personal Protection:

Health Hazard	
Fire Hazard	
Reactivity	
Personal Protection	

Other Information: SDS Number: 169570

SDS Revision Date: October 08, 2015

MSDS Revision Notes: Format change
 Supersedes: 17-Aug-2012

Guide to Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts

Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer:

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