



SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006, CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

VICTOR PROPANE

Issued: 2018-01-14

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

1.1. Product identifier

Trade name VICTOR PROPANE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use Fuel

1.3. Details of the supplier of the safety data sheet

SDS created by TDS Team

Supplier ESAB DENTON

Street address 2800 Airport Road
Denton, TX 76207

Telephone 1-800-372-2123

Email sdsrequest@esab.com

Web site www.esab.com

1.4. Emergency telephone number

Emergency phone number 1-800-372-2123

Available outside office hours No

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Flammable gases, hazard category 1
Gases under pressure, Liquefied gas

Hazard statements H220, H225, H332, H400, H410

2.2. Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

Pictogram



Signal word Danger



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Hazard statements

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H332 Harmful if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precaution statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing Gas.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P370 + P378 In case of fire: Use to extinguish.
P391 Collect spillage.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents and container by lawful and appropriate disposal method.

2.3. Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No.	Concentration	Classification	R-phrase H-phrase
Propane	74-98-6 200-827-9	>87%	- Flam. Gas 1, Press. Gas	- H220
ethane	74-84-0 200-814-8	<7%	- Flam. Gas 1, Press. Gas	- H220
propene	115-07-1 204-062-1	<5%	- Flam. Gas 1, Press. Gas	- H220
Butane	106-97-8 203-448-7	<2,5%	- Flam. Gas 1, Press. Gas	- H220
ethanethiol	75-08-1 200-837-3	<0,005%	- Flam. Liq. 2, Aquatic Acute 1, Aquatic Chronic 1, Acute Tox. 4 - oral	- H225, H332, H400, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately. Rapid evaporation of the liquid may cause frostbite. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.



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Inhalation

Move to fresh air in case of accidental inhalation of vapours. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen.

Skin contact

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Avoid skin contact with leaking liquid (danger of frostbite).

Eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Information for doctors

Rapid evaporation of the liquid may cause frostbite.

4.2. Most important symptoms and effects, both acute and delayed

Not applicable

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

use dry chemical, CO₂, water spray or "alcohol" foam

5.2. Special hazards arising from the substance or mixture

Not applicable

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. For effective first-aid, special training / education is needed. Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Prevent further leakage or spillage. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3. Methods and material for containment and cleaning up

P376 Stop leak if safe to do so.

6.4. Reference to other sections

Not applicable



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment.

General hygiene Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with the particular national regulations. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS no.	EC No.	Exposure limit mg/m3-ppm		Short-term exposure limit mg/m3-ppm		Ceiling exposure limit mg/m3-ppm		Remark	Source	Year
Propane	74-98-6	200-827-9	-	1000	-	-	-	-	-	OSHA	2017
ethane	74-84-0	200-814-8	-	-	-	-	-	-	No PEL	OSHA	2017
propene	115-07-1	204-062-1	-	-	-	-	-	-	No PEL	OSHA	2017
butane	106-97-8	203-448-7	-	-	-	-	-	-	No PEL	OSHA	2017
ethanethiol	75-08-1	200-837-3	-	-	-	-	-	10	-	OSHA	2017

8.2. Exposure controls

Technical precaution measures Ensure adequate ventilation, especially in confined areas. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Eye / face protection safety glasses with side-shields

Safety gloves Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Rapid evaporation of the liquid may cause frostbite.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colorless gas
Appearance, colour	Not applicable
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Extremely flammable gas
Flash point	Not applicable
Initial boiling point and boiling range	Not applicable
Melting point / freezing point	Not applicable
Odour	Rotten egg odor
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	1.77
pH value	Not applicable
Physical state	Gas
Relative density	0.504 (liquid) 1.5 (vapor) (air=1) @ 15 degrees celsius
Solubility	Not applicable
Solubility in water	Slightly soluble in water
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	127 psig (21 degrees celsius)



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Viscosity Not applicable

9.2. Other information

Not applicable

Other

Molecular weight: 45 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites, and perchlorates causing fire and explosion hazard.

10.2. Chemical stability

Chemical stability Stable under recommended storage conditions. Stable at normal conditions

10.3. Possibility of hazardous reactions

Not applicable

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials strong oxidizing agents 5.51 - May cause combustion and explosion when in contact with acids, halogens, alcohols, amines.

10.6. Hazardous decomposition products

Hazardous decomposition products carbon oxides Hydrocarbons

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on toxicological effects No data available

Acute toxicity Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.

Skin corrosion/irritation Rapid evaporation of the liquid may cause frostbite.

Serious eye damage/irritation No data available

Respiratory/skin sensitization No data available



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Germ cell mutagenicity No data available

Genotoxicity No data available

Carcinogenicity No data available

Repeated dose toxicity No data available

Reproductive toxicity No data available

STOT-single exposure No data available

STOT-repeated exposure No data available

Aspiration hazard No data available

LD50 Oral Ethyl Mercaptan: Rat 682 mg/kg

LD50 Dermal Ethyl Mercaptan: Rat >2000 mg/kg

LC50 Inhalation Propylene: Mouse - 680 mg/l, 2 hours: Rat - 658 mg/l, 4 hours Butane: Mouse 680 mg/l, 2 hours Rat 658 mg/l, 4 hours Propane: Rat >1442 mg/l, 15 minutes Ethyl Mercaptan: Mouse 4420 mg/l, 4 hours

Routes of exposure No data available

Toxicity in case of eye contact No data available

Toxicity in case of ingestion No data available

Other

Acute effects No data available

Long term effect No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity No data available

Toxicity No data available

Aquatic not water endangering

Soil No data available

Acute fish toxicity No data available

Acute algae toxicity No data available



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Chronical toxicity

This product contains ethanethiol, which is classified by CLP Directive Regulation (EC) No 1272/2008, as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability

Readily biodegradable

Decay/transformation

No data available

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available

12.4. Mobility in soil

Mobility

No data available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations. Do not expose of any non-empty container. Cylinders should be emptied and returned to a hazardous waste collection point.

Other

Waste code (EWC)

D001: Waste Flammable material with a flash point <140 degrees fahrenheit.

SECTION 14: Transport information

14.1. UN number

UN number

UN1075

14.2. UN proper shipping name

Name

Petroleum gases, liquefied

14.3. Transport hazard class(es)

ADN Class

2.1



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14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Other

Lake (IMDG)???

Additional information IMDG

UN1075: Petroleum Gases, liquiefied: Class 2.1: Label 2.1

Flight (DGR)

Additional information IATA (ICAO)

UN1075: Petroleum Gases, liquiefied: Class 2.1: Label 2.1

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2008. on waste and repealing certain Directives. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.



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Other regulations, limitations and legal regulations

Poland Regulations:

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz 817).

The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888).

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal. Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations :

USA: This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs): Product is a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.

Canada: WHMIS classification: Class D; Division 2, Subdivision A

International Inventories:

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australian Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

15.2. Chemical safety assessment

Chemical safety assessment

Not Available



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Other

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.
WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. ELECTRIC SHOCK can kill. ARC RAYS and SPARKS can injure eyes and burn skin.
Wear correct hand, head, eye and body protection.

SECTION 16: Other information

Changes to previous revision

This Safety Data Sheet has been revised due to modifications to Sections 1-16.

References to key literature and data sources

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for Electric Welding and Cutting" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB, and to: www.esab.com

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Flam. Gas 1 - Flammable gases, hazard category 1
Flam. Liq. 2 - Flammable liquids, hazard category 2
Press. Gas - Gases under pressure
Press. Gas - Gases under pressure, Compressed gas
Press. Gas - Gases under pressure, Liquefied gas
H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapour.
H332 - Harmful if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.



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Other

Additional information

USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS. American National Standard Z49.1 Safety in Welding and Cutting, ANSI/AWS F1.5 Methods for Sampling and Analyzing Gases from Welding and Allied Processes, ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fume", 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at www.aws.org.

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169

UK: WMA Publication 236 and 237, "Hazards from Welding fume", "The arc welder at work, some general aspects of health and safety".

Germany: Unfallverhütungsvorschrift BGV D1, "Schweißen, Schneiden und verwandte Verfahren".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should: notify its employees, agents and contractors of the information on this SDS and any product hazards/safety information. furnish this same information to each of its customers for the products

Request such customers to notify employees and customers for the same product hazards and safety information.

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