Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1Product Identifier

Chemical Name Propargyl Alcohol

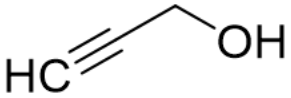
Catalogue # P762550

1.2Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Uses To be used only for scientific research and development. Not for use in humans or animals.

1.3 Details of the Supplier of the Safety Data Sheet

Company Will be updated as per company.



1.4Emergency Telephone Number

Emergency# Will be updated as per company.

2. HAZARDS IDENTIFICATION

2.1/2.2 Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Flammable Liquids (Category 3)
Acute Toxicity, Oral (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Dermal (Category 3)
Skin Corrosion (Category 1B)
Eye Damage/Irritation (Category 1)
Hazardous to the Aquatic Environment, Acute Hazard (Category 2)
Hazardous to the Aquatic Environment, Long-Term Hazard (Category 2)

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Danger

GHS Hazard Statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H331	Toxic if inhaled.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

GHS Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303/P361/P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P273	Avoid release to the environment.
P391	Collect spillage.

2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular Formula: C_3H_4O **Molecular Weight:** 56.06

CAS Registry #: 107-19-7 **EC#:** 203-471-2

Synonyms

2-Propyn-1-ol; 1-Hydroxy-2-propyne; 1-Propyn-3-ol; 1-Propyn-3-yl alcohol; 2-Propynol; 2-Propynyl alcohol; 3-Hydroxy-1-propyne; 3-Hydroxypropyne; 3-Propynol; Ethynylcarbinol; Hydroxymethylacetylene; NSC 8804; Propynyl alcohol

3.2 Mixtures

Not a mixture.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice
If medical attention is required, show this safety data sheet to the doctor.

If Inhaled
If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact
Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In Case of Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

If Swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Self-protection of the first aider
Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Lungs, thorax, or respiration: respiratory depression; dyspnea. Behavioral: somnolence (general depressed activity). Sense organs and special senses (eye): conjunctive irritation.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture

Carbon oxides

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5.3**Advice for Firefighters**
Wear self contained breathing apparatus for fire fighting if necessary. Use personal protection equipment.

5.4**Further Information**
No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1**Personal Precautions, Protective Equipment and Emergency Procedures**
Use recommended personal protective equipment (see Section 8). Adequate ventilation must be provided to ensure vapours or mists are not inhaled. Vapours are heavier than air and may accumulate in low areas. All sources of ignition, including sources of static discharge, must be removed from area.

6.2**Environmental Precautions**
Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

6.3**Methods and Materials for Containment and Cleaning Up**
Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

6.4**Reference to Other Sections**
For protective equipment, refer to Section 8. For disposal, see Section 13.

7. HANDLING AND STORAGE

7.1**Precautions for Safe Handling**
Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of vapours and mists. Remove all sources of ignition and take precautionary measures to prevent the buildup of electrostatic discharge (ground and bond containers as appropriate). No smoking, eating or drinking around this material. Wash hands after use.

7.2**Conditions for Safe Storage, Including any Incompatibilities#**
Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10).
Storage conditions: 20°C

7.3 Specific End Uses
For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1**Control Parameters**

Components with workplace exposure levels

Component	CAS#	Value	Control Parameters	Basis
Propargyl alcohol	107-19-7	TWA	1 ppm 2.3 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	1 ppm	Canada. British Columbia OEL
		TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)

8.2**Exposure Controls**

Appropriate Engineering Controls
A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection
Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

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Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.
Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.
Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.
Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.
Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection
Chemical-resistant bodysuit (laminated Tychem SL or equivalent).

Respiratory Protection
Recommended respirators are NIOSH-approved OV/Multi-gas/P100 or CEN-approved ABEK-FFP3 respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Information on Basic Physical and Chemical Properties**

A) Appearance
Clear Colourless Liquid

B) Odour
No data available

C) Odour Threshold
No data available

D) pH
No data available

E) Melting Point/Freezing Point

F) Initial Boiling Point/Boiling Range
No data available

G) Flash point
No data available

H) Evaporation Rate
No data available

I) Flammability (Solid/Gas)
No data available

J) Upper/Lower Flammability/Explosive Limits
No data available

K) Vapour Pressure
No data available

L) Vapour Density
No data available

M) Relative Density
No data available

N) Solubility
Chloroform, Ethyl Acetate

O) Partition Coefficient: n-octanol/water
No data available

P) Auto-Ignition Temperature
No data available

Q) Decomposition Temperature
No data available

R) Viscosity
No data available

S) Explosive Properties
No data available

T) Oxidizing Properties
No data available

9.2 Other Information
no data available

10. STABILITY AND REACTIVITY

10.1 **Reactivity**
No data available.

10.2 **Chemical Stability**
Stable under recommended storage conditions.

10.3 **Possibility of Hazardous Reactions**
No data available.

10.4 **Conditions to Avoid**
Heat, flames, sparks.

10.5 **Incompatible Materials**
Strong oxidizing agents.

10.6 **Hazardous Decomposition Products**
In the event of fire: See section 5. **Other decomposition products:** No data available.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

A) **Acute Toxicity**

Oral LD50: Rat - 20 mg/kg

Dermal LD50: Rat - 88 mg/kg

Inhalation LC50: Rat - 2 h - 873 ppm

B) **Skin Corrosion/Irritation**

No data available

C) **Serious Eye Damage/Irritation**

Corrosive - causes skin and eye burns. May also cause respiratory tract damage.

D) **Respiratory or Skin Sensitization**

No data available

E) **Germ Cell Mutagenicity**

No data available

F) **Carcinogenicity**

No data available

G) **Reproductive Toxicity/Teratogenicity**

No data available

H) **Single Target Organ Toxicity - Single Exposure**

No data available

I) **Single Target Organ Toxicity - Repeated Exposure**

No data available

J) **Aspiration Hazard**

No data available

K) **Potential Health Effects and Routes of Exposure**

Inhalation

Toxic if inhaled. Material is extremely destructive to the mucous membranes and respiratory tract.

Ingestion

Toxic if swallowed.

Skin

Toxic if absorbed through skin. Causes skin burns.

Eyes

Causes severe eye burns and possible permanent eye damage.

L) **Signs and Symptoms of Exposure**

Lungs, thorax, or respiration: respiratory depression; dyspnea. Behavioral: somnolence (general depressed activity). Sense organs and special senses (eye): conjunctive irritation.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

M) **Additional Information**

RTECS: UK5075000

12. ECOLOGICAL INFORMATION

12.1 **Toxicity**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.53 mg/l - 96.0 h

12.2 **Persistance and Degradability**

No data available.

12.3 **Bioaccumulative Potential**

No data available.

12.4 Mobility in Soil

No data available.

12.5 **Results of PBT and vPvB Assessment**

No data available.

12.6 **Other Adverse Effects**

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

A) Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to

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be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

B)**Contaminated Packaging**

Dispose of as above.

C)**Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

14.1**UN Number**

DOT (US): UN2929 IATA: UN2929 IMDG: UN2929 ADR/RID: UN2929

14.2**UN Proper Shipping Name**

DOT (US)/IATA:

Toxic liquids, flammable, organic, n.o.s. (Propargyl Alcohol)

IMDG/ARD/RID:

TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Propargyl Alcohol)

14.3**Transport Hazard Class(es)**

DOT (US): 6.1 (3) IATA: 6.1 (3) IMDG: 6.1 (3) ADR/RID: 6.1 (3)

14.4**Packing Group**

DOT (US): I IATA: I IMDG: I ADR/RID: I

14.5**Environmental Hazards**

DOT (US): None IATA: None IMDG: None ADR/RID: None

14.6**Special Precautions for User**

None

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

15.1**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

A) Canada

DSL/NDSL Status: This product or a component of this product is registered on the Canadian DSL/NDSL.

B) United States

TSCA Status: This product or a component is listed on the US EPA TSCA.

C) European Union

ECHA Status: This product or a component is registered with the EU ECHA.

15.2**Chemical Safety Assessment**

No data available

16. OTHER INFORMATION

16.1**Revision History**

Original Publication Date: N/A

16.2**List of Abbreviations**

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

16.3**Further Information**

Copyright 2015. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

Disclaimer

The Final Document will be available at the time of consignment.

 # Can vary as per company.

End of Safety Data Sheet.

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