



TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 01/08/2019

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

1.1 Product identifiers

Product name: Propargyl Bromide (80% in Toluene, ca. 9.2mol/L) (stabilized with MgO)
Product code: P1272

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V.
 Boerenveldseweg 6
 Haven 1063
 B-2070 Zwijndrecht
 Telephone: +32(0)3 735 07 00
 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids	Category 2
Acute toxicity (Oral)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1A
Specific target organ toxicity - Single exposure [Category 1]	Central nervous system
Specific target organ toxicity - Single exposure [Category 3]	Respiratory tract irritation, Narcotic effects
Specific target organ toxicity - Repeated exposure [Category 1]	Liver, Kidney, Central nervous system
Aspiration hazard	Category 1

2.2 Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

H225-Highly flammable liquid and vapour.
 H301-Toxic if swallowed.
 H315-Causes skin irritation.
 H319-Causes serious eye irritation.
 H360FD-May damage fertility. May damage the unborn child.
 H370-Causes damage to organs : Central nervous system
 H372-Causes damage to organs through prolonged or repeated exposure : Liver Kidney Central nervous system
 H335-May cause respiratory irritation.
 H336-May cause drowsiness or dizziness.
 H304-May be fatal if swallowed and enters airways.
Precautionary statements
 P260-Do not breathe mist, vapours or spray.
 P280-Wear protective gloves, protective clothing, face protection.
 P301+P310+P331+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.
 P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components: Propargyl Bromide (80% in Toluene, ca. 9.2mol/L) (stabilized with MgO)
Percent:
CAS RN: 106-96-7
EC-No: 203-447-1
Synonyms: 3-Bromo-1-propyne (80% in Toluene, ca. 9.2mol/L) (stabilized with MgO)
Chemical Formula: C_3H_3Br
Hazardous composition:
Chemical name: Toluene Conc.: < 20%
CAS RN:108-88-3 EC No.: 203-625-9
Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, STOT RE 2, Repr. 2
H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H361d: Suspected of damaging the unborn child via inhalation. H373: May cause damage to central nervous system via inhalation.
Chemical name: Propargyl Bromide Conc.: > 80%
CAS RN:106-96-7 EC No.: 203-447-1
Flam. Liq. 2, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3
H225: Highly flammable liquid and vapour. H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth.
Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Explosion risk in case of fire. Fight fire remotely due to the risk of explosion.
Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Hydrogen bromide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
6.2 Environmental precautions	Prevent product from entering drains
6.3 Methods and materials for containment and cleaning up	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
6.4 Reference to other sections	For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! May develop pressure. Open carefully.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in an explosion-proof refrigerator. Store under inert gas. Protect from moisture. Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Light-sensitive, Moisture-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	No data available (Toluene) ACGIH TLV(TWA):20 ppm OSHA PEL(TWA):200 ppm OSHA PEL(CL):300 ppm
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Yellow
Odour:	Stench
pH:	No data available
Melting point/freezing point:	No data available (Toluene) -95°C
Boiling point/range:	No data available (Toluene) 110°C
Flash point:	18°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient: n-octanol/water:	No data available (Toluene) 2.69
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	May explosively decompose on heating, shock, friction, etc. Reacts with copper, silver, mercury, etc. to form explosive acetylides.
10.4 Conditions to avoid	Heat, Spark, Open flame, Static discharge, Shock, Friction
10.5 Incompatible materials	Oxidizing agents, Bases, Copper, Peroxides, Copper alloys, Mercury, Silver, Trichloronitromethane
10.6 Hazardous decomposition products	Carbon dioxide, Carbon monoxide, Hydrogen bromide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:	No data available (Toluene) ori-hmn LDLo:50 mg/kg ori-man LDLo:719 uL/kg ori-rat LD50:636 mg/kg ihl-rat LC50:49 g/m ³ /4H skn-rbt LD50:14100 uL/kg
Skin corrosion/irritation:	No data available (Toluene) skn-rbt 500 mg MOD
Serious eye damage/irritation:	No data available (Toluene) eye-hmn 300 ppm eye-rbt 870 ug MLD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available (Toluene) sce-hmn-ihl 252 ug/L/19Y cyt-rat-scu 9600 mg/kg/12D-I
Carcinogenicity:	
IARC =	No data available
NTP =	No data available (Toluene) IARC = 3
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

SECTION 12: Ecological information

12.1 Toxicity

Fish:	No data available
Crustacea:	No data available
Algae:	No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM³/mol):	No data available

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

14.1 UN number	1993
14.2 UN proper shipping name	
ADR/RID	Flammable liquid, n.o.s
IMDG/IMO	Flammable liquid, n.o.s
ICAO/IATA	Flammable liquid, n.o.s
14.3 Transport hazard class(es)	
ADR/RID	3: Flammable liquid
IMDG/IMO	3: Flammable liquid
ICAO/IATA	3: Flammable liquid
14.4 Packaging group	
ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II
14.5 Environmental hazards	
Marine pollutant	-
14.6 Special precautions for user	No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Water Hazard Classes (WGK) :	Class 3 - Severe hazard to waters
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by:	TCI EUROPE N.V.
Issue date:	01/08/2019

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet