

# MSDS for Propargyl bromide, 80 wt% solution in toluene, stabilized

Propargyl bromide, 80 wt% solution in toluene, stabilized

## Section 1 - Chemical Product and Company Identification

MSDS Name Propargyl bromide, 80 wt% solution in toluene, stabilized

Catalog Numbers 13148-0000, 13148-0500, 13148-2500

Synonyms 3-Bromopropyne

Company Identification DAYANG CHEMICALS CO.LTD.  
A/5F 1539 FULI BUILDING , WENER RD. HNAGZHOU CITY, CHINA

For information, call +86-571-88938657

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#	Haz	Symbols	Risk Phrases
106-96-7	Propargyl bromide	80%	203-447-1	F T		11 25 36/37/38
108-88-3	Toluene	20%	203-625-9	F XN		11 38 48/20 63 65 67

Text for R-phrases: see Section 16

Hazard Symbols: T F

Risk Phrases: 11 25 36/37/38

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Highly flammable. Toxic if swallowed. Irritating to eyes, respiratory system and skin.

### POTENTIAL HEALTH EFFECTS

Eye Causes eye irritation. Lachrymator (substance which increases the flow of tears).

Skin Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion May cause irritation of the digestive tract. Poison by ingestion.

Inhalation Causes respiratory tract irritation. May be harmful if inhaled.

Chronic Not available.

## Section 4 - First aid Measures

Eyes Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion Get medical aid immediately. Wash mouth out with water.

Inhalation Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician  
Treat symptomatically and supportively.

#### Section 5 - Fire Fighting Measures

General Information  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor. Forms explosive mixtures with air or oxygen.

Extinguishing Media  
Use water spray, dry chemical, carbon dioxide, or chemical foam.

#### Section 6 - Accidental Release Measures

General Information  
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks  
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

#### Section 7 - Handling and Storage

Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, Handling mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a chemical fume hood.

Keep away from sources of ignition. Store in a cool, dry place.

Storage  
Store in a tightly closed container. Corrosives area.  
Refrigerator/flammables.

#### Section 8 - Exposure Controls, Personal Protection

##### ENGINEERING CONTROLS:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

##### EXPOSURE LIMITS

CAS# 106-96-7:

CAS# 108-88-3:

United Kingdom, OES - TWA: 50 ppm TWA; 191 mg/m<sup>3</sup> TWA

United Kingdom, OES - STEL: 150 ppm STEL; 574 mg/m<sup>3</sup> STEL

United States OSHA: 200 ppm TWA; 300 ppm Ceiling

Belgium - TWA: 50 ppm VLE; 191 mg/m<sup>3</sup> VLE

France - VME: 100 ppm VME; 375 mg/m<sup>3</sup> VME

France - VLE: 150 ppm VLE; 550 mg/m<sup>3</sup> VLE

Germany: 50 ppm TWA; 190 mg/m<sup>3</sup> TWA

Germany: Skin absorber

Japan: 50 ppm OEL; 188 mg/m<sup>3</sup> OEL

Malaysia: 50 ppm TWA; 188 mg/m<sup>3</sup> TWA  
Netherlands: 40 ppm MAC; 150 mg/m<sup>3</sup> MAC  
Russia: 50 mg/m<sup>3</sup> TWA  
Spain: 50 ppm VLA-ED; 191 mg/m<sup>3</sup> VLA-ED

#### PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear chemical goggles.

Skin Wear appropriate protective gloves to prevent skin exposure.

Clothing Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Respirators Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### Section 9 - Physical and Chemical Properties

Physical State	Liquid
Color	yellow
Odor	Not available.
pH	Not available.
Vapor Pressure	Not available.
Viscosity	Not available.
Boiling Point	88 - 90 deg C @760mmHg
Freezing/Melting Point	Not available.
Autoignition Temperature	Not available.
Flash Point	4 deg C ( 39.20 deg F)
Explosion Limits, lower	Not available.
Explosion Limits, upper	Not available.
Decomposition Temperature	
Solubility in water	not miscible
Specific Gravity/Density	1.380
Molecular Formula	C3H3Br
Molecular Weight	118.96

#### Section 10 - Stability and Reactivity

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Incompatible materials, ignition sources.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide, hydrogen bromide.

Hazardous Polymerization Will not occur.

#### Section 11 - Toxicological Information

RTECS# CAS# 106-96-7: UK4375000 CAS# 108-88-3: XS5250000

CAS# 106-96-7: Oral, rat: LD50 = 53 mg/kg.

CAS# 108-88-3: Draize test, rabbit, eye: 870 ug Mild; Draize test, rabbit, eye: 2 mg/24H Severe; Draize test, rabbit, skin: 435 mg Mild; Draize test, rabbit, skin: 500 mg Moderate; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, mouse: LC50 = 400 ppm/24H; Inhalation, mouse: LC50 = 30000 mg/m3/2H; Inhalation, mouse: LC50 = 19900 mg/m3/7H; Inhalation, mouse: LC50 = 10000 mg/m3; Inhalation, rat: LC50 = 49 gm/m3/4H; Oral, rat: LD50 = 636 mg/kg; Skin, rabbit: LD50 = 14100 uL/kg.

LD50/LC50

Carcinogenicity Propargyl bromide - Not listed by ACGIH, IARC, or NTP.  
Toluene - Not listed by ACGIH, IARC, or NTP.

Other See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	FLAMMABLE TOXIC, N.O.S.*	LIQUID, FLAMMABLE TOXIC, N.O.S.	LIQUID, FLAMMABLE TOXIC, N.O.S.
Hazard Class:	3 (6.1)	3 (6.1)	3 (6.1)
UN Number:	1992	1992	1992
Packing Group:	II	II	II

USA RQ: CAS# 108-88-3: 1000 lb final RQ; 454 kg final RQ

## Section 15 - Regulatory Information

### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: T F

Risk Phrases:

R 11 Highly flammable.

R 25 Toxic if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 106-96-7: 3

CAS# 108-88-3: 2

Canada

CAS# 106-96-7 is listed on Canada's NDSL List.

CAS# 108-88-3 is listed on Canada's DSL List.

CAS# 106-96-7 is not listed on Canada's Ingredient Disclosure List.

CAS# 108-88-3 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 106-96-7 is listed on the TSCA inventory.

CAS# 108-88-3 is listed on the TSCA inventory.

#### Section 16 - Additional Information

	R 11 Highly flammable.
	R 25 Toxic if swallowed.
	R 36/37/38 Irritating to eyes, respiratory system and skin.
	R 38 Irritating to skin.
Text for R-phrases from Section 2	R 48/20 Harmful : danger of serious damage to health by prolonged exposure through inhalation.
	R 63 Possible risk of harm to the unborn child.
	R 65 Harmful: may cause lung damage if swallowed.
	R 67 Vapours may cause drowsiness and dizziness.

MSDS Creation Date 7/16/1996

Revision #2 Date 9/02/2003

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