1. Identification

Product identifier used on the label

Golpanol® PAP

Recommended use of the chemical and restriction on use

Recommended use*: chemical for industrial metal-working
Recommended use*: Chemical
Suitable for use in industrial sector: metal-working

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification
Chemical family: unspecified

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:

H318	Causes serious eye damage.
H302	Harmful if swallowed.

Precautionary Statements (Prevention):

P280	Wear eye/face protection.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 52 - 71 %

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
Trade Secret	0.2 - 1.0%	prop-2-yn-1-ol

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:
Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus in confined areas or when exposed to combustion products.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions
Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).
Dispose of absorbed material in accordance with regulations.
For large amounts: Pump off product.
Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Keep container tightly closed. Protect from the effects of light.

Protection against fire and explosion:
No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep in a cool place.
Protect from temperatures below: -10 °C
Protect from temperatures above: 80 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

prop-2-yn-1-ol	OSHA PEL	TWA value 1 ppm 2 mg/m3 ; SKIN_FINAL ; The substance can be absorbed through the skin.
	ACGIH TLV	Skin Designation ; The substance can be absorbed through the skin. TWA value 1 ppm ;

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Tightly fitting safety goggles (chemical goggles).

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	product specific	
Odour threshold:	not determined	
Colour:	yellow to brown	
pH value:	5 - 9 (23 °C)	(DIN 19268)
solidification temperature:	approx. -16 °C (1,013 hPa)	(DIN ISO 3013)
boiling temperature:	approx. 100 °C	
Flash point:	No flash point - Measurement made up to pilot light extinguishes. Aqueous preparation	(DIN EN 22719; ISO 2719)
Flammability:	hardly combustible	
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	361 °C	(Regulation 440/2008/EC, A.15)
Vapour pressure:	21.8 hPa (20 °C) 29.6 hPa (25 °C) 115.6 hPa (50 °C)	(Directive 92/69/EEC, A.4) (Directive 92/69/EEC, A.4) (Directive 92/69/EEC, A.4)
Density:	1.0 - 1.02 g/cm3 (23 °C)	(DIN 51757)
Relative density:	1.01 (20 °C)	
Vapour density:	not determined	
Information on: 2-Propyn-1-ol, compd. with methyloxirane		
Partitioning coefficient n-octanol/water (log Pow):	0.0 (24 °C)	(OECD Guideline 107)

Self-ignition temperature:	not self-igniting	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	5.45 mPa.s (20 °C) 2.71 mPa.s (40 °C)	(OECD 114) (OECD 114)
Viscosity, kinematic:	5.4 mm2/s (20 °C) 2.73 mm2/s (40 °C)	(OECD 114) (OECD 114)
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	completely soluble	
Solubility (qualitative):	soluble solvent(s): organic solvents,	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
Reacts with alkalies. Reacts with acids. Reacts with heavy metal salts. Reacts with oxidizing agents.

Conditions to avoid
Avoid extreme heat. Avoid sources of ignition.
See MSDS section 7 - Handling and storage.

Incompatible materials
strong bases, acids, heavy metal salts, strong oxidizing agents

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral
Type of value: LD50
Species: rat
Value: > 500 - 2,000 mg/kg

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Type of value: LD50

Species: rat (male/female)
Value: > 464 - < 2,150 mg/kg (BASF-Test)

Inhalation

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Species: rat (male/female)
Value: (IRT)
Exposure time: 7 h
Inhalation-risk test (IRT): No mortality within 7 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Type of value: LD50
Species: rat (male/female)
Value: > 2,000 mg/kg (OECD Guideline 402)
No mortality was observed.

Assessment other acute effects
Assessment of STOT single:
Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye
Species: rabbit
Result: Risk of serious damage to eyes.
Method: OECD Guideline 405

Sensitization

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

Aspiration Hazard
No data available.

Chronic Toxicity/Effects

Repeated dose toxicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion. The substance may cause damage to the kidney after repeated ingestion.

Genetic toxicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of mutagenicity: Most of the results from the available studies show no evidence of a mutagenic effect.

Carcinogenicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Teratogenicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The results were determined in a Screening test (OECD 421/422).

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

12. Ecological Information

Toxicity

Toxicity to fish
LC50 (96 h) > 100 mg/l, Leuciscus idus

Chronic toxicity to fish
No data available.

Chronic toxicity to aquatic invertebrates
No data available.

Aquatic toxicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane
Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Aquatic invertebrates

Information on: 2-Propyn-1-ol, compd. with methyloxirane
EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).
EC50 (48 h) 233.57 mg/l, Arcatia tonsa (ISO 14669, static)
An aqueous solution was tested.
LC50 (10 d) 7,999 mg/l, Corophium volutator (, static)
An aqueous solution was tested.

Aquatic plants

Information on: 2-Propyn-1-ol, compd. with methyloxirane
EC10 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)
The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).
EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)
The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).
EC50 (72 h) 289.17 mg/l (growth rate), Skeletonema costatum (ISO/DIS 10253, static)
An aqueous solution was tested.

Assessment of terrestrial toxicity

Information on: 2-Propyn-1-ol, compd. with methyloxirane

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

Information on: 2-Propyn-1-ol, compd. with methyloxirane
DIN 38412 Part 8 aerobic
bacterium/EC50 (17 h): > 10,000 mg/l
The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Elimination information

90 - 100 % DOC reduction (21 d) (OECD 301 A (new version)) Readily biodegradable.

Mobility in soil

Assessment transport between environmental compartments
Adsorption to solid soil phase is not expected.

Additional information

Sum parameter

Chemical oxygen demand (COD): 1,410 mg/g

Biochemical oxygen demand (BOD) Incubation period 30 d: 905 mg/g

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:
Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport
USDOT

Classified as combustible liquid in containers greater than 119 gallons.

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed
TSCA § 5 commenced PMN

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

CERCLA RQ	CAS Number	Chemical name
1000 LBS	Trade Secret	prop-2-yn-1-ol
100 LBS	50-00-0; 75-56-9	Formaldehyde; Propylene oxide

State regulations

State RTK	CAS Number	Chemical name
NJ	57-55-6	Propylene glycol
PA	57-55-6	Propylene glycol

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including PROPYLENE OXIDE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:
Health: 3 Fire: 2 Reactivity: 0 Special:

HMIS III rating
Health: 3 Flammability: 2 Physical hazard: 0

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2019/04/12

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.