

Safety Data Sheet

Golpanol® DEP

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1. Identification

Product identifier used on the label

Golpanol® DEP

Recommended use of the chemical and restriction on use Suitable for use in industrial sector: chemical industry

* 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

Molecular formula:C7H1 3NSynonyms:N,N-DIETHYL-2-PROPYN-1-AMINE

2. Hazards Identification

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

Classification of the product

Flam. Liq.	2	Flammable liquids
Acute Tox.	3 (Inhalation - vapour)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	3 (dermal)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Repr.	2 (unborn child)	Reproductive toxicity
Aquatic Acute	3	Hazardous to the aquatic environment - acute

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Aquatic Chronic

Hazardous to the aquatic environment - chronic

Label elements

Signal Word:



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Danger Hazard Statement: H225 Highly flammable liquid and vapour. Toxic in contact with skin. H311 H331 Toxic if inhaled. H302 Harmful if swallowed. Suspected of damaging the unborn child. H361 Causes severe skin burns and eye damage. H314 H402 Harmful to aquatic life. Harmful to aquatic life with long lasting effects. H412 Precautionary Statements (Prevention): P280 Wear protective gloves/protective clothing/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapours. P243 Take precautionary measures against static discharge. P260 Do not breathe mist or vapour. P273 Avoid release to the environment. P260 Do not breathe dust or mist. P201 Obtain special instructions before use. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P202 Do not handle until all safety precautions have been read and understood. P264 Wash with plenty of water and soap thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P242 Use only non-sparking tools. P240 Ground/bond container and receiving equipment. Precautionary Statements (Response): P310 Immediately call a POISON CENTER or doctor/physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P361 + P364 Remove/Take off immediately all contaminated clothing and wash before reuse.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P370 + P378 In case of fire: Use foam or dry powder for extinction.

Precautionary Statements (Storage):

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P403 + P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.
P405	Store locked up.
Precautionary Staten	nents (Disposal):
P501	Dispose of contents/container to hazardous or special waste collection point.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

DANGER: FLAMMABLE LIQUID. CORROSIVE LIQUID. Toxic by inhalation. TOXIC ON SKIN CONTACT. TOXIC - ORAL. TOXIC IF SWALLOWED. CORROSIVE TO SKIN. RISK OF SERIOUS DAMAGE TO EYES. CAUSES RESPIRATORY TRACT IRRITATION. Avoid contact with the skin, eyes and clothing. Use with local exhaust ventilation. Wear a NIOSH-certified (or equivalent) particulate respirator. Wear NIOSH-certified chemical goggles. Wear protective clothing. Wear chemical resistant protective gloves. Eye wash fountains and safety showers must be easily accessible.

3. Composition / Information on Ingredients

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

CAS Number	Content (W/W)	Chemical name
4079-68-9	90.0 - 100.0 %	N,N-diethyl-2-propynylamine
108-88-3	0.0 - 0.7 %	Toluene
109-89-7	0.0 - 0.3 %	diethylamine

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

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4. First-Aid Measures

Description of first aid measures

General advice:

Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

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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:

Wash affected areas with water while removing contaminated clothing. Seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, 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.

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: foam, dry powder

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 self-contained breathing apparatus and chemical-protective clothing.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Impact Sensitivity: Remarks:

No data available.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Can release flammable vapours. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Substance/product is capable of accumulating a static charge which could act as an ignition source. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Render equipment and apparatus inert (nitrogen, inert gases) and ground before putting into operation.

Conditions for safe storage, including any incompatibilities

Segregate from strong acids. Segregate from strong bases. Segregate from heavy-metal salts. Segregate from strong oxidizing agents.

Further information on storage conditions: Keep container tightly closed and in a cool place. Protect from temperatures above: 50 °C

8. Exposure Controls/Personal Protection

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 based on level of activity and exposure.

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General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Remove contaminated clothing.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	amine-like	
Odour threshold:		No data available.
Colour:	colourless	
pH value:	9 - 11	(10 g/l, 23 °C) (DIN ISO 976)
solidification	approx32 °C	(DIN ISO 3013)
temperature:		х , , , , , , , , , , , , , , , , , , ,
boiling temperature:	118 - 121 °C	
Flash point:	14 °C	(DIN 51755)
Flammability:	Highly	
	flammable.	
Lower explosion limit:	1.0 %(V)	
Upper explosion limit:	7.6 %(V)	
Autoignition:	> 200 °Ć	(DIN 51794)
Vapour pressure:	16.7 mbar	(20 °C)
Density:	0.75 - 0.85 g/cm3	(20 °C) (DIN 51757)
Relative density:	-	No data available.
Vapour density:		not determined
Partitioning coefficient n-	1.17	(25 °C)
octanol/water (log Pow):		
Thermal decomposition:	not determined	
Viscosity, kinematic:	< 100 mm2/s	(20 °C)
Particle size:		
		The substance / product is marketed or
		used in a non solid or granular form.
Solubility in water:	approx. 30 g/l	(25 °C)
Solubility (qualitative):	soluble	
	solvent(s): polar solv	vents,
Evaporation rate:		No data available.

10. Stability and Reactivity

Reactivity

Corrosion to metals: No corrosive effect on metal. Formation of Remarks: flammable gases:

Forms no flammable gases in the presence of water.

Chemical stability

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

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid humidity. See MSDS section 7 - Handling and storage.

Incompatible materials

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strong acids, strong bases, 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: not determined

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

<u>Oral</u> Type of value: LD50 Species: rat Value: 470 mg/kg

Inhalation Type of value: LC50 Species: rat Value: 2.1 mg/l Exposure time: 4 h The vapour was tested.

Dermal Type of value: LD50 Species: rabbit Value: 500 mg/kg

<u>Assessment other acute effects</u> Assessment of STOT single: The toxicity of the product is based on its corrosivity.

Skin Species: rabbit Result: Corrosive. Method: BASF-Test

Eye Result: Risk of serious damage to eyes.

Sensitization

Assessment of sensitization: No reliable data was available concerning sensizitation. As the substance is corrosive, conducting sensitization studies is not feasible.

Chronic Toxicity/Effects

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Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

<u>Genetic toxicity</u> Assessment of mutagenicity: The substance was not mutagenic in bacteria.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity

Toxicity to fish LC50 (96 h) 10 - 100 mg/l, Leuciscus idus

<u>Aquatic invertebrates</u> EC50 (48 h) > 100 mg/l

Aquatic plants EC50 (72 h) 10 - 100 mg/l

Chronic toxicity to fish No data available.

<u>Chronic toxicity to aquatic invertebrates</u> No data available.

Assessment of terrestrial toxicity No data available concerning terrestrial toxicity.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms DIN 38412 Part 8 EC10 (17 h): 770 mg/l Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Elimination information

70 - 80 % DOC reduction (28 d) (OECD 301E; 84/449/EEC, C.3) (aerobic, municipal sewage treatment plant effluent)

<u>Assessment of stability in water</u> According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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Bioaccumulation potential

No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow).

Mobility in soil

<u>Assessment transport between environmental compartments</u> The substance will slowly evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

Additional information

Sum parameter

Chemical oxygen demand (COD): 1,640 mg/g

13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: D001

D002

14. Transport Information

Land transport USDOT	
Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	6.1 I UN 3489 6.1, 3, 8 TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE, N.O.S. (contains N,N-DIETHYL-2-PROPINYLAMINE)
Sea transport IMDG	
Hazard class: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	6.1 I UN 3489 6.1, 3, 8 NO TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE, N.O.S. (contains N,N-DIETHYL-2-PROPINYLAMINE)
Air transport IATA/ICAO	
Hazard class: Packing group:	6.1 I

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TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE, N.O.S. (contains N,N-DIETHYL-2-PROPINYLAMINE)

Acute; Fire; Sudden release of pressure

15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories):

CERCLA RQ 1000 LBS 100 LBS

108-88-3 109-89-7

CAS Number

Chemical name Toluene diethylamine

State regulations

State RTK	CAS Number	Chemical name
MA, NJ, PA	108-88-3	Toluene
MA, NJ, PA	109-89-7	diethylamine

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health: 3 Fire: 3 Reactivity: 0 Special:

HMIS III rating

Health: 3 Flammability: 3 Physical hazard:0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2015/05/13

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.

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