

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date : 2025/06/19

Version: 8.0

Page: 1/11

(30036625/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

HDO® 1,6-Hexanediol molten LowPCF

Recommended use of the chemical and restriction on use

Recommended use*: Chemical used in synthesis and/or formulation of industrial products

Recommended use*: industrial chemicals

Unsuitable for use: Not intended for sale to or use by the general public.

* 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

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: diols

2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 2/11

(30036625/SDS_GEN_US/EN)

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

The product may cause burns, if handled in the melted state.

3. Composition / Information on Ingredients

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash thoroughly with soap and water. Burns caused by molten material require hospital treatment. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention. Remove contact lenses, if present.

If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause:, unconsciousness, lethargy

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Symptomatic treatment (decontamination, vital functions).

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 3/11

(30036625/SDS_GEN_US/EN)

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

water spray, dry powder, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

nitrogen oxides, carbon oxides

The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Keep unprotected persons away.

Environmental precautions

This product is not regulated by RCRA.

Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

To clean the floor and all objects contaminated by this material, use plenty of water. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Avoid contact with the skin, eyes and clothing. Avoid inhalation of mists/vapours.

Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 4/11

(30036625/SDS_GEN_US/EN)

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Keep away from sources of ignition - No smoking.

Storage stability:

Storage duration: 24 Months

8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified organic vapour cartridge respirator with a particulate pre-filter. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Wear gloves to prevent contact during mechanical processing and/or hot melt conditions., Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to minimize contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Store work clothing separately.

9. Physical and Chemical Properties

Physical state:

solid

Form:

melt, viscous

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 5/11

(30036625/SDS_GEN_US/EN)

	flakes, molten	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
Colour:	colourless	
pH value:	5.7	
	(500 g/l, 20 °C)	
Melting point:	39.5 - 42.1 °C	
Freezing point:	No data available.	
Boiling point:	250 °C	
	(1,013 hPa)	
Boiling range:	253 - 260 °C	
	(760 mmHg)	
Boiling point:	No data available.	
Sublimation point:	No data available.	
Flash point:	136 °C	
Flammability:	not readily ignited	(VDI 2263, sheet 1, 1.2 (May 1990))
Lower explosion limit:	6.6 %(V)	
	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	320 °C	
	Literature data.	
SADT:	Study scientifically not justified.	
Vapour pressure:	0.00067 hPa	(calculated)
	(25 °C)	
	Literature data.	
Density:	0.9600 g/cm ³	
	(50 °C)	
Bulk density:	530 kg/m ³	
Relative vapour density:	not determined	
Partitioning coefficient n- octanol/water (log Pow):	0.000	(OECD Guideline 107)
	(25 °C)	
Self-ignition temperature:	not self-igniting	
	not self-igniting	
Thermal decomposition:	230 °C, 20 J/g (DSC (DIN 51007))	
	It is not a self-decomposable substance. No exothermic decomposition within the mentioned temperature range.	
Viscosity, dynamic:	61 mPa.s	
	(43 °C)	
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	(25 °C)	
	miscible, Literature data.	
Miscibility with water:	miscible in all proportions	
Solubility (quantitative):	> 700 g/kg	
	Ethanol (approx. 25 °C)	
Solubility (qualitative):	No data available.	
Molecular weight:	118.18 g/mol	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

Particle characteristics

No data available.

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 6/11

(30036625/SDS_GEN_US/EN)

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Not corrosive to: iron Stainless steel

Oxidizing properties:

not fire-propagating (other)

Reactions with water/air:	Reaction with:	water
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Flammable gases:	no
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Toxic gases:	no
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Corrosive gases:	no
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Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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Chemical stability

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

Possibility of hazardous reactions

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

The product is chemically stable.

Reacts with oxidizing agents.

Conditions to avoid

No special precautions other than good housekeeping of chemicals.

Incompatible materials

acids, acid chlorides, isocyanates

strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

230 °C, 2 K/min (DSC (DIN 51007))

It is not a self-decomposable substance. No exothermic decomposition within the mentioned temperature range.

11. Toxicological information

Primary routes of exposure

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 7/11

(30036625/SDS_GEN_US/EN)

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: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Oral

Type of value: LD50

Species: rat (male/female)

Value: approx. 3,000 mg/kg (similar to OECD guideline 401)

An aqueous solution was tested.

Inhalation

Type of value: LC0

Species: rat (male/female)

Value: 3.3 mg/l (similar to OECD guideline 403)

Exposure time: 8 h

The vapour was tested.

No mortality within the stated exposition time as shown in animal studies. Limit concentration test only (LIMIT test).

Dermal

Type of value: LD50

Species: rabbit (male/female)

Value: > 2,500 mg/kg (similar to OECD guideline 402)

No mortality was observed. Limit concentration test only (LIMIT test).

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Skin

Species: rabbit

Result: non-irritant

Method: BASF-Test

An aqueous solution was tested.

Eye

Species: In vitro assay

Result: Inconclusive

Method: OECD Guideline 437

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 8/11

(30036625/SDS_GEN_US/EN)

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: Guideline 92/69/EEC, B.6

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organotoxicity was observed after repeated administration to animals.

Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity: No data available.

Reproductive toxicity

Assessment of reproduction toxicity: Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological Information

Toxicity

Aquatic toxicity

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.

Toxicity to fish

LC50 (96 h) 4,600 - 10,000 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Aquatic invertebrates

EC50 (48 h) > 500 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants

EC50 (72 h) > 120 mg/l (growth rate), (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration.

EC10 (72 h) > 120 mg/l (growth rate), (OECD Guideline 201, static)

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 9/11

(30036625/SDS_GEN_US/EN)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish

No observed effect concentration (35 d) $\geq$ 10 mg/l, Brachydanio rerio (OECD Guideline 210, Flow through.)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) $\geq$ 10 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Assessment of terrestrial toxicity

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN 38412 Part 8 aerobic

bacterium/EC10 (17 h): 8,400 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Readily biodegradable (according to OECD criteria).

Elimination information

96 % DOC reduction (21 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis)

No data available.

Bioaccumulative potential

Assessment bioaccumulation potential

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

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Additional information

Sum parameter

Chemical oxygen demand (COD): 2,190 mg/g

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 10/11

(30036625/SDS_GEN_US/EN)

Biochemical oxygen demand (BOD) Incubation period 5 d: 1,320 mg/g

Adsorbable organically-bound halogen(AOX):
This product contains no organically-bound halogen.

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal:

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

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

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

All substances are TSCA listed and active.

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

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2025/06/19

Safety Data Sheet

HDO® 1,6-Hexanediol molten LowPCF

Revision date: 2025/06/19

Version: 8.0

Page: 11/11

(30036625/SDS_GEN_US/EN)

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Version: 8.0

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END OF DATA SHEET