

# Safety Data Sheet

## Lugalvan® HS 1000

Revision date : 2021/08/23

Version: 3.0

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(30050765/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

**Lugalvan® HS 1000**

#### Recommended use of the chemical and restriction on use

Recommended use\*: Raw material for the chemical-technical industry

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: non-ionic surfactants

Synonyms: THIODIGLYCOL ETHOXYLATE

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### 2. Hazards Identification

#### According to Regulation 2012 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

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

### Hazards not otherwise classified

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

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## 3. Composition / Information on Ingredients

### According to Regulation 2012 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.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air.

#### If on skin:

Wash thoroughly with soap and water

#### If in eyes:

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

#### If swallowed:

Rinse mouth and then drink 200-300 ml of water.

### Most important symptoms and effects, both acute and delayed

Symptoms: No applicable information available.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

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### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours, carbon oxides, sulfur oxides

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.

### 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.

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## 6. Accidental release measures

### Further accidental release measures:

Forms slippery surfaces with water.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8.

### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Carbon steel (Iron), Stainless steel 1.4301 (V2), Stainless steel 1.4401, Stove-lacquer RDL 50, Stainless steel 1.4541

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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## 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

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### Personal protective equipment

#### **Respiratory protection:**

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

#### **Hand protection:**

Wear chemically impervious protective gloves.

#### **Eye protection:**

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

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

#### **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.

## 9. Physical and Chemical Properties

Form:	waxy type	
Odour:	product specific, mild	
Odour threshold:	No data available.	
Colour:	yellowish to brown	
pH value:	6.5	
	( 100 g/l)	
melting range:	24 - 30 °C	(DIN ISO 2207)
	( 1,013 hPa)	
Boiling point:	200 °C	
Flash point:	approx. 317 °C	(ISO 2592)
Flammability:	No data available.	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	374 °C	(DIN EN 14522)
Vapour pressure:	1 mbar	
	( 50 °C)	
Density:	1.1 g/cm <sup>3</sup>	
	( 20 °C)	
Relative density:	No data available.	
Bulk density:	not determined	
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Thermal decomposition:	not determined	
Viscosity, dynamic:	100 - 160 mPa.s	(DIN 53019)
	( 40 °C)	
		(DIN EN ISO 2555)
Viscosity, kinematic:	not applicable, the product is a solid	
Particle size:	No data available.	
Solubility in water:	300 g/l	
	( 20 °C)	

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Solubility (qualitative):	soluble solvent(s): polar solvents,
Evaporation rate:	No data available.
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

No hazardous reactions when stored and handled according to instructions.  
The product is chemically stable.

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials

strong bases, strong acids, 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

#### Acute toxicity

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

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg (OECD Guideline 423)

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### Inhalation

Type of value: LC50  
Species: rat  
not determined

### Dermal

Type of value: LD50  
Species: rat  
not determined

### Assessment other acute effects

No data available.

### Irritation / corrosion

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

### Skin

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

### Eye

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: No data available.

### Aspiration Hazard

not applicable

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

### Carcinogenicity

Assessment of carcinogenicity: No data available.

### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

### Teratogenicity

Assessment of teratogenicity: No data available.

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

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### 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) > 100 mg/l, *Leuciscus idus*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Aquatic invertebrates

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

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

### Aquatic plants

EC50 (72 h) > 100 mg/l

acute Effect The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Chronic toxicity to fish

No data available.

### Chronic toxicity to aquatic invertebrates

No data available.

### Assessment of terrestrial toxicity

No data available concerning terrestrial toxicity.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

bacterium/EC10 (17 h): > 10,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

### Elimination information

> 70 % DOC reduction (OECD 301 A (new version))

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## **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 possible.

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### Additional information

#### Sum parameter

Chemical oxygen demand (COD): 1,780 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Observe allowable values of impurities of effluents discharged in water and soil (according regulation of ministry of the environment from November, 18th , 2014, law gazette pos. 1800 (Poland))

## 13. Disposal considerations

### **Waste disposal of substance:**

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

### **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 released / listed

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

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



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**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**NFPA Hazard codes:**

Health: 1      Fire: 0      Reactivity: 0      Special:

**HMIS III rating**

Health: 1      Flammability: 0      Physical hazard: 0

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## 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2021/08/23

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