

## Safety data sheet

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BASF Safety data sheet  
Date / Revised: 31.01.2025  
Product: **Luphen® D DS 3548**

Version: 4.1

(30164627/SDS\_GEN\_SG/EN)

Date of print: 20.10.2025

### 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**Luphen® D DS 3548**

Use: Raw material, for industrial use only

Manufacturer/supplier:  
BASF South East Asia Pte Ltd.  
128 Beach Road #18-01  
Guoco Midtown, 189773, Singapore  
Telephone: +65 8322 4420  
Telefax number: +65 6 334-0330  
E-mail address: benny.zou@basf.com

Emergency information:  
Singapore Emergency Toll-Free Number:  
Telephone: 1800-723-1361  
International emergency number:  
Telephone: +49 180 2273-112

### 2. Hazard identification

Classification of the substance and mixture:  
Skin sensitization: Cat.1

Label elements and precautionary statement:

Pictogram:



Signal Word:

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## Warning

### Hazard Statement:

H317 May cause an allergic skin reaction.

### Precautionary Statements (Prevention):

P280 Wear protective gloves.

P261 Avoid breathing mist or vapour or spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

### Precautionary Statements (Response):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

### Precautionary Statements (Disposal):

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

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## 3. Composition/information on ingredients

### Chemical nature

Substance nature: mixture

Aqueous dispersion of a polymer based on: polyurethane

### Hazardous ingredients

2-methyl-2H-isothiazol-3-one

Content (W/W): > 0 PPM - < 200 PPM

CAS Number: 2682-20-4

Acute Tox.: Cat. 2 (Inhalation - dust)

Acute Tox.: Cat. 3 (oral)

Acute Tox.: Cat. 3 (dermal)

Skin Corr.: Cat. 1B

Eye Dam.: Cat. 1

Skin Sens.: Cat. 1A

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

M-factor acute: 10

M-factor chronic: 1

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## 4. First-Aid Measures

### General advice:

Remove contaminated clothing.

### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

### On skin contact:

Wash thoroughly with soap and water

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On contact with eyes:

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

On ingestion:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: No hazards anticipated.

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Specific hazards:

No particular hazards known.

Special protective equipment:

No data available.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with skin and eyes.

Environmental precautions:

Do not release untreated into natural waters.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

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## 7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice. After long storage, slight quantities of carbon monoxide may be formed. To our best knowledge, the occupational exposure

limit (OEL) is not exceeded during use. Entering of tanks must only be performed after intensive cleaning and when it is ensured that residual vapours have been removed. Consideration of national laws and international standards for confined space entry should be taken in to account. In case of doubt, the concentration of Carbon monoxide must be determined.

#### Storage

Further information on storage conditions: Store protected against freezing.

Protect from temperatures below: 5 °C

Protect from temperatures above: 60 °C

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## 8. Exposure controls and personal protection

#### Components with occupational exposure limits

No substance specific occupational exposure limits known.

#### Personal protective equipment

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

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## 9. Physical and Chemical Properties

Form:	liquid, dispersion
Colour:	white
Odour:	almost odourless
Odour threshold:	not determined

pH value:	8.0 - 9.5 (23 °C)	(DIN ISO 976)
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Melting point:	No data available.
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Information on: water	
Melting point:	0 °C

Boiling point:	No data available.
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Information on: water	
Boiling point:	100 °C

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 Flash point:

not applicable

Flammability (solid/gas): not flammable

Lower explosion limit:

For liquids not relevant for  
classification and labelling.

Upper explosion limit:

For liquids not relevant for  
classification and labelling.

Ignition temperature:

not applicable

Thermal decomposition: No decomposition if used correctly.

Self ignition: not self-igniting

Self heating ability: It is not a substance capable of  
spontaneous heating.

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure:

No data available.

Information on: water

Vapour pressure:

23.4 hPa

(20 °C)

Literature data.

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 Density:

approx. 1.05 g/cm<sup>3</sup>  
(20 °C)

(ISO 8962)

Relative density:

No data available.

Relative vapour density (air):

not applicable

Solubility in water:

partly soluble  
(15 °C)

Miscibility with water:

miscible

Partitioning coefficient n-octanol/water (log Pow):

not applicable

Viscosity, dynamic:

10 - 70 mPa.s  
(23 °C, 250 1/s)

(DIN EN 12092)

Viscosity, kinematic:

No data available.

Solids content:

44.0 - 46.0 %

(DIN EN ISO 3251)

Other Information:

Range of particle size: &lt; 0,1 µm - 10 µm

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#### Particle characteristics

Particle size distribution: No data available. -

Specific Surface Area:

No data available.

Particle Shape:

No data available.

Dustiness:

No data available.

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## 10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures.

Thermal decomposition:

No decomposition if used correctly.

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions. After long storage, slight quantities of carbon monoxide may be formed.

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

Chemical stability:

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

Reactivity:

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

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## 11. Toxicological Information

### **Routes of exposure**

#### **Acute oral toxicity**

Experimental/calculated data:

ATE (oral): > 5,000 mg/kg

#### **Acute inhalation toxicity**

(by inhalation): not determined

#### **Acute dermal toxicity**

ATE (dermal): > 5,000 mg/kg

#### **Assessment of acute toxicity**

Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### **Symptoms**

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

### **Irritation**

Assessment of irritating effects:

If the product adheres to skin, irritation may occur when it dries.

Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

### **Respiratory/Skin sensitization**

Assessment of sensitization:

May cause sensitization by skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

No data available.

### **Germ cell mutagenicity**

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Carcinogenicity**

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Experimental/calculated data:

No data available.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

Not expected to cause reproductive toxicity (based on composition).

Experimental/calculated data:

No data available.

### **Developmental toxicity**

Assessment of teratogenicity:

The data available for an assessment of the effect of the substance on developmental toxicity are not sufficient for a proper evaluation.

### **Specific target organ toxicity (single exposure)**

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

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

No adverse effects were observed after repeated inhalative exposure in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

No data available.

### **Aspiration hazard**

not applicable

### **Other relevant toxicity information**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The statement was derived from products of similar composition.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

No data available.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates:

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

Aquatic plants:

EC50 (72 h) > 100 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (0.5 h) > 100 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:



No data available.

### **Mobility**

Assessment transport between environmental compartments:

No data available.

### **Persistence and degradability**

Elimination information:

> 70 % DOC reduction (OECD 302B; ISO 9888; 88/302/EWG, Teil C) Easily eliminated from water.

### **Bioaccumulation potential**

Assessment bioaccumulation potential:

No data available.

Bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

### **Other adverse effects**

Adsorbable organically-bound halogen (AOX):

No data available.

### **Additional information**

Other ecotoxicological advice:

Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

Ecological data are determined by analogy.

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## **13. Disposal Considerations**

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

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

Observe national and local legal requirements.

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## **14. Transport Information**

### **Domestic transport:**

UN number or ID number	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Sea transport**

## IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

**Air transport**

## IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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**15. Regulatory Information****Other regulations**

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**16. Other Information**

Any other intended applications should be discussed with the manufacturer.

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