

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 29.05.2025  
Product: **PLASTOMOLL® DOA**

Version: 6.1

(30034813/SDS\_GEN\_TH/EN)

Date of print: 17.10.2025

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

**Product name:**  
**PLASTOMOLL® DOA**

Use: plasticizers

Manufacturer/supplier:  
BASF (Thai) Limited  
23rd Floor, Emporium Tower, 622, Sukhumvit 24 Rd.,  
Klongton, Klongtoey, Bangkok 10110, THAILAND  
Telephone: +66 2624-1999  
Telefax number: +66 2664-9254  
E-mail address: Thailand-SDS-info@basf.com

Emergency information:  
International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

### Classification according to UN GHS 2009

Classification of the substance and mixture:  
No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

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

Other hazards which do not result in classification:  
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.  
See section 12 - Results of PBT and vPvB assessment.

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

Di-2-ethylhexyladipate (Content (W/W):  $\geq 99.5\%$ )  
CAS Number: 103-23-1

No particular hazards known.

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### 4. First-Aid Measures

General advice:  
Remove contaminated clothing.

If inhaled:  
Keep patient calm, remove to fresh air.

On skin contact:  
Wash thoroughly with soap and water

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

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

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: (Further) symptoms and / or effects are not known so far  
Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

Suitable extinguishing media:  
dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:  
Use extinguishing measures to suit surroundings.

Specific hazards:  
The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Further information:

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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## 7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

No special precautions necessary. Substance/product is non-flammable.

Storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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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

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### 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. Manufacturer's directions for use should be observed because of great diversity of types.

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.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### 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).

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
Odour threshold:	not determined	
pH value:	not applicable, of very low solubility	
Melting point:	-67.8 °C Literature data.	
Boiling point:	377.88 °C (1,013 hPa)	(measured)
Flash point:	200 °C Literature data.	(closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	hardly combustible	(derived from flash point)

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Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	377 °C Literature data.	
Thermal decomposition:	No data available.	
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	not applicable, the product is a liquid	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	0.00003 Pa (20 °C) Extrapolated value	(measured)
Density:	0.924 - 0.926 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Relative density:	0.92 (20 °C)	(DIN 51757)
Relative vapour density (air):	12.7 (20 °C) Heavier than air.	(calculated)
Solubility in water:	Literature data. 0.0032 mg/l (22 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	8.94 (25 °C)	(OECD Guideline 117)
Adsorption/water - soil:	KOC: 48630; log KOC: 4.68 Adsorption to solid soil phase is expected.	(calculated)
Surface tension:	Study technically not feasible.	
Viscosity, dynamic:	13 - 15 mPa.s (20 °C) The value was determined by calculation from the detected kinematic viscosity.	(calculated (from kinematic viscosity))

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Molar mass: 370.57 g/mol

#### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

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## 10. Stability and Reactivity

Conditions to avoid:

No special precautions other than good housekeeping of chemicals.

Thermal decomposition: No data available.

Substances to avoid:

strong oxidizing agents

Corrosion to metals: Corrosive effects to metal are not anticipated.

Hazardous reactions:

Reacts with strong oxidizing agents.

Hazardous decomposition products:

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:

LD50rat (oral): approx. 24,600 mg/kg (OECD Guideline 401)

#### **Acute inhalation toxicity**

LC50 rat (by inhalation): > 5.7 mg/l 4 h (OECD Guideline 403)

No mortality was observed. An aerosol was tested.

#### **Acute dermal toxicity**

LD50 rabbit (dermal): 15,076 mg/kg

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

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

### **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:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (Draize test)

Serious eye damage/irritation rabbit: non-irritant (similar to OECD guideline 405)

### **Respiratory/Skin sensitization**

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Draize test guinea pig: Non-sensitizing.

Patch test rabbit: Non-sensitizing. (Patch test)

other in silico: Non-sensitizing. ((Q)SAR Model)

### **Germ cell mutagenicity**

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria, microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

### **Carcinogenicity**

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met. IARC Group 3 (not classifiable as to human carcinogenicity).

### **Reproductive toxicity**

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

### **Developmental toxicity**

Assessment of teratogenicity:

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

### **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:

Repeated exposure to high doses of the substance causes reversible liver changes in rodents.

According to present knowledge, these effects do not occur in man.

### **Aspiration hazard**

not applicable

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.

Toxicity to fish:

LC<sub>0</sub> (96 h) > 0.78 mg/l, *Oncorhynchus mykiss* (other, static)

No mortality was observed. No toxic effects occur within the range of solubility.

Aquatic invertebrates:

EC<sub>50</sub> (48 h) > 500 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. No toxic effects occur within the range of solubility.

Aquatic plants:

EC<sub>50</sub> (72 h) > 500 mg/l, *Scenedesmus subspicatus* (DIN 38412 Part 9)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. No toxic effects occur within the range of solubility.

Microorganisms/Effect on activated sludge:

EC<sub>20</sub> (3 h) > 350 mg/l, activated sludge, domestic, aerobic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Lowest observed effect concentration (21 d), > 0.77 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

Assessment of terrestrial toxicity:

Soil living organisms:



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LC50 (14 d) 865 mg/kg, *Eisenia foetida* (Directive 88/302/EEC, part C, p. 95, artificial soil)

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

### **Mobility**

Assessment transport between environmental compartments:

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

### **Persistence and degradability**

Elimination information:

approx. 98 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

### **Bioaccumulation potential**

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

Bioaccumulation potential:

Bioconcentration factor: 27 (28 d), *Lepomis macrochirus* (measured)

### **Additional information**

Other ecotoxicological advice:

Do not release untreated into natural waters.

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## **13. Disposal Considerations**

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

Contaminated packaging:

Disposal must be made according to official regulations.

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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**

Regulation:	IBC-Code
Product name:	Di(2-ethylhexyl)adipate
Pollution category:	Y
Ship Type:	2

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.