

# Safety Data Sheet

## PALAMOLL® 654

Revision date : 2024/03/29

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### 1. Identification

#### Product identifier used on the label

## PALAMOLL® 654

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

Recommended use\*: plasticizers

Recommended use\*: for industrial use only

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:

adipic acid polyesters

Synonyms:

POLYESTER BASED ON DICARBOXYLIC ACIDS AND  
POLYHYDRIC ALCOHOLS

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### 2. Hazards Identification

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

##### Label elements

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

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### Hazards not otherwise classified

No applicable information available.

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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, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

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Additional information:

Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

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

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Special protective equipment for firefighters

### Further information:

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

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

### Further accidental release measures:

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.

### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

### Environmental precautions

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning 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.

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## 7. Handling and Storage

### Precautions for safe 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.

### Conditions for safe storage, including any incompatibilities

Segregate from strong oxidizing agents.

Further information on storage conditions: Keep container tightly closed.

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### 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 respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134).

##### Hand protection:

Wear chemical resistant protective gloves.

##### Eye protection:

Safety glasses with side-shields.

##### Body protection:

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

##### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of mists. Avoid contact with the skin, eyes and clothing. Wash soiled clothing immediately.

### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	ester-like	
	ester-like	
Odour threshold:	not determined	
Colour:	slightly yellow	
pH value:	not applicable, of very low solubility	
pour point:	-18 °C ( 1 ATM)	(DIN ISO 3016)
Freezing point:	No data available.	
Melting point:	No data available.	
Boiling point:	not applicable	
Boiling range:	No data available.	
Flash point:	190 °C	(ISO 2719)
Flammability:	not highly flammable	
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.	
Autoignition:	400 °C	(DIN 51794)
Vapour pressure:	< 0.1 mbar ( 20 °C)	
Density:	1.070 - 1.085 g/cm3 ( 20 °C)	(DIN 51757)

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Relative density:	1.070 - 1.085 ( 20 °C)	
Vapour density:	> 1 ( 20 °C)	(estimated)
Partitioning coefficient n-octanol/water (log Pow):	Heavier than air. not applicable	
Refractive index:	1.468 - 1.470 ( 20 °C )	(DIN 51423-2 (n <sub>D</sub> 20))
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	4,500 - 5,500 mPa.s ( 20 °C)	(calculated (from kinematic viscosity))
Viscosity, kinematic:	No data available.	
Solubility in water:	< 0.1 mg/l ( 20 °C)	
Solubility (quantitative):	No data available.	
Solubility (qualitative):	soluble solvent(s): organic solvents,	
Molar mass:	not applicable	
Evaporation rate:	No data available.	

## 10. Stability and Reactivity

### Reactivity

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
not fire-propagating (other)

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

The product is chemically stable.

### Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### Incompatible materials

strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

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

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Thermal decomposition:  
No decomposition if stored and handled as prescribed/indicated.

## 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 (BASF-Test)

#### Assessment other acute effects

Assessment of STOT single:

Not relevant.

#### Irritation / corrosion

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

#### Skin

Species: rabbit

Method: OECD Guideline 404

#### Eye

Species: rabbit

Method: OECD Guideline 405

#### Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

#### Aspiration Hazard

not applicable

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

#### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

#### Carcinogenicity

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Assessment of carcinogenicity: Based on the structure there is no suspicion of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See SDS section 11 - Toxicological information.

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## 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 LC50 is higher than the solubility limit. 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) > 10,000 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EWG, C.1, static)  
Nominal concentration.

### Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

DIN 38412 Part 27 (draft) aerobic

bacterium/EC10 (16 h): > 10,000 mg/l

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

Biodegradable.

#### Elimination information

88 % BOD of COD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, industrial) Biodegradable.

### Bioaccumulative potential

#### Bioaccumulation potential

Because of the product's consistency and low water solubility, bioavailability is improbable.

### Mobility in soil

#### Assessment transport between environmental compartments

No data available.

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### Additional information

Other ecotoxicological advice:  
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

## 13. Disposal considerations

### Waste disposal of substance:

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

### Container disposal:

Disposal must be made according to official regulations.

## 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.

### NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

### HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2024/03/29



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