

Safety data sheet

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BASF Safety data sheet
Date / Revised: 31.01.2025
Product: **Epotal® BLX 3654**

Version: 3.1

(30751064/SDS_GEN_SG/EN)

Date of print: 17.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
Epotal® BLX 3654

Use: Raw material

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:
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.

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3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

Polymer based on: carboxylic acids, unsaturated, modified

dissolved in:
water

Contains: crosslinker component

Hazardous ingredients

Ethanol, 2,2',2''-nitrilotris-, (2Z)-2-butenedioate (salt)

Content (W/W): $\geq 1\%$ - $< 3\%$ Skin Sens.: Cat. 1

CAS Number: 41397-50-6

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

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:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: No hazards anticipated.

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Specific hazards:

No particular hazards known.

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Special protective equipment:
No data available.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

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.

For residues: Rinse away with water.

7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

No special measures necessary provided product is used correctly.

Storage

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), Polyester resin, glass reinforced (Palatal A410), High density polyethylene (HDPE), Low density polyethylene (LDPE), enamelled, glass

Further information on storage conditions: Store protected against freezing.

Protect from temperatures below: 5 °C

Protect from temperatures above: 60 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

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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.

Eye protection:

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

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.

9. Physical and Chemical Properties

Form:	liquid
Colour:	yellowish
Odour:	faint odour
Odour threshold:	not determined

pH value:	3.0 - 4.0 (water, 10 %(m))	(DIN ISO 976)
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solidification temperature:	approx. -5 °C
boiling temperature:	approx. 100 °C
Information on: water	
Boiling point:	100 °C

Flash point:	> 100 °C not applicable
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Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
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Flammability (solid/gas):	not flammable
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Lower explosion limit:	For liquids not relevant for classification and labelling.
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Upper explosion limit:	For liquids not relevant for classification and labelling.
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Ignition temperature:	not applicable
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Thermal decomposition:	No decomposition if used correctly.
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Self ignition:	not self-igniting
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SADT: No data available.
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.

Density: 1.21 g/cm³ (ISO 2811-1)
(20 °C)
1.20 g/cm³
(15 °C)
1.18 g/cm³
(50 °C)
1.19 g/cm³
(35 °C)

Relative density: No data available.

Relative vapour density (air):
not applicable

Solubility in water: soluble

Miscibility with water:
miscible

Partitioning coefficient n-octanol/water (log Pow):
not applicable

Viscosity, dynamic: 900 - 2,500 mPa.s (DIN EN ISO 2555 (LV))
(23 °C)

Viscosity, kinematic:
No data available.

Solids content: 48.0 - 52.0 % (DIN EN ISO 3251)

Particle characteristics

Particle size distribution: No data available. -
Specific Surface Area:

No data available.

Particle Shape:

No data available.

Dustiness:

No data available.

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.

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions.

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

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:
LD50rat (oral): > 2,000 mg/kg
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Acute inhalation toxicity

(by inhalation): No data available.

Acute dermal toxicity

(dermal): No data available.

Assessment of acute toxicity

Virtually nontoxic after a single ingestion.

Symptoms

(Further) symptoms and / or effects are not known so far

Irritation

Assessment of irritating effects:
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: No data available.

Serious eye damage/irritation: No data available.

Respiratory/Skin sensitization

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

Experimental/calculated data:
mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

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

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)

Remarks: No data available.

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

Assessment of repeated dose toxicity:
No data available.

Experimental/calculated data:
No data available.

Aspiration hazard

No data available.

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.

12. Ecological Information

Ecotoxicity

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, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EWG, C.1, static)

Aquatic invertebrates:

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

EC100 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

EC0 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

No data available.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Mobility**Assessment transport between environmental compartments:**

No data available.

Bioaccumulation potential**Assessment bioaccumulation potential:**

The product has not been tested.

Additional information**Other ecotoxicological advice:**

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The local regulations on waste-water treatment must be followed.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing 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.

14. Transport Information

Domestic transport:

	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
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.

15. Regulatory Information

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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.

16. Other Information

Any other intended applications should be discussed with the manufacturer.

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.